THE

Maryland Agricultural College

QUARTERLY

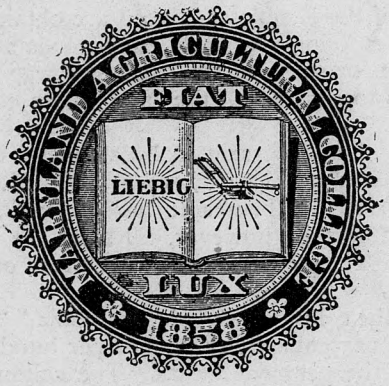
ENTERED AT COLLEGE PARK (MD.) POST OFFICE AS SECOND-CLASS MATTER

No. 49 AUGUST 1910

MARYLAND AGRICULTURAL AND MECHANICAL COLLEGE LIBRARY

FERTILIZER ANALYSES

R. W. SILVESTER, President
Edited by H. B. McDONNELL, - - Professor of Chemistry



Published for the Benefit of Agriculture, and Sent Free to Anyone Desiring a Copy

Issued in the months of February, May, August and November

ADDRESS

Chemical Department, Maryland Agricultural College

COLLEGE PARK, MD.

ANALYSES OF

Fertilizers Sold in Maryland

BY THE CHEMICAL DEPARTMENT OF

The Maryland Agricultural College

Dr. H. B. McDonnell, Professor of Chemistry,—State Chemist.
I. V. Stone, B. S., Instructor in Chemistry.
R. B. Deemer, B. S., Assistant Chemist.
Cornelius Beatty, A. B., Assistant Chemist.
T. D. Jarrell, B. S., Assistant Chemist.
F. G. Baggs, Clerk.

The tables on the following pages are made up of the results of the analysis of fertilizers made at the College from March to July, 1910, inclusive.

The majority of the samples analyzed are obtained by our sampling agents, the samples being taken while the goods are in transit, on vessels, wharves, cars, or stations, from farmers' wagons, barns, etc. It is impossible for us to analyze all the samples we collect; duplicates are generally omitted.

When a sample has been sent in by a farmer his name, or initials, will be found after the "place of sampling." No sample is analyzed unless fully described on blanks furnished by this department. The description is not sent in, however, till after the analysis is reported.

No samples are accepted from manufacturers or their agents under any circumstances.

The figures in the columns headed "Ammonia," "Potash" and "Phosphoric Acid," are percentages, or pounds per hundred. To get pounds per ton multiply the per cent by 20. The columns headed "Found" contain the results found by analysis; those headed "Guaranteed" contain the essential part of the guarantee as stamped on the bags.

The columns headed "No." contain the respective numbers by which the samples are known in the laboratory. In writing to the Chemical Department in regard to any analysis the number should always be given. The samples are numbered consecutively on the books of the office, but are arranged alphabetically for publication, which accounts for the mixing of the numbers.

To get "Total" phosphoric acid add the "Insoluble" to the "Available" phosphoric acid.

The "Comparative Value Found" is calculated from the results of analysis as found in our laboratory; the "Comparative Value Guaranteed" is calculated from the manufacturers' guaranteed analysis as printed on the bags; in each case using the schedule as given below.

Schedule for Calculating Comparative Values.

In Mixed Fertilizer:	
For Nitrogen, calculated as Ammonia	20 cts. per pound.
For Potash (K_2O), in forms free from muriate	6 cts. per pound.
For Potash (K_2O), as muriate or kainit	5 cts. per pound.
For Available Phosphoric Acid	6 cts. per pound.
For Insoluble Phosphoric Acid	2 cts. per pound.
For Insoluble Phosphoric Acid when from rock	1 ct. per pound.
In Dissolved Rock:	
Available Phosphoric Acid	4½ cts. per pound.
Insoluble Phosphoric Acid	1 ct. per pound.
In Tankage:	
For Nitrogen, calculated as Ammonia	15 cts. per pound.
For Phosphoric Acid	3 cts. per pound.
In Ground Bone:	
For Nitrogen, calculated as Ammonia	20 cts. per pound.
For Phosphoric Acid	3 cts. per pound.

The "Comparative Values" given in the table are not claimed to be the proper prices to be paid for the various fertilizers at the place of sale or use. They will be found to be not far from the prices for which fertilizers may be obtained at Baltimore, for cash. In making comparisons at other points freight from Baltimore should be added.

It should be noted that plant food costs more in low grade or "cheap" fertilizers than it does in high grade goods. Thus a 1-5-1 fertilizer (1 per cent of ammonia, 5 per cent of available phosphoric acid and 1 per cent of potash) will cost more than half as much as a 2-10-2 fertilizer, though it only contains half as much plant food. The demand for "cheap" fertilizer causes low grade material to be at a premium, even when less efficient and less available than the same amount of actual plant food in the higher grade goods.

Farmers are advised to buy 16 per cent dissolved rock or acid phosphate, when possible. Do not expect to get the 16 per cent goods at the same price paid for the 14 per cent, however. The higher grade will cost about $1 per ton more. The cheapest filler is the soil in the field and the cheapest mixing machine is the harrow.

Low grade mixed fertilizers should be avoided, such as a fertilizer guaranteed to contain ¼ per cent Ammonia, 6 per cent Available Phosphoric acid and 1 per cent of Potash. Such a fertilizer could be made as follows: 50 lbs. Ground Fish, 750 lbs. Dissolved Rock and 40 lbs. Muriate of Potash to the ton; this would necessitate the use of 1160 lbs. of filler in each ton.

In practice, however, such a fertilizer would be made of materials of lower grade, as garbage tankage, kainit, etc., and would not require so much filler.

Avoid the "cheap" low grade fertilizers if you would avoid filler.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the Collegc.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Amer. Agrl. Chem. Co., New York.											
19647	Acme Fish Mixture	Baltimore	1.02	1.00	3.03	3.00	1.17	.....	6.85	6.00	$15.80	$14.20
21108	Big Crop Phosphate	Monkton	.....	.....	5.15	5.00	.67	.....	8.24	8.00	12.70	12.20
19617	Big Crop Phosphate	Trappe (P. K.)	.....	.....	5.02	5.00	.72	.....	8.56	8.00	12.86	12.20
21112	Complete Manure with 10% Pot.	Baltimore	3.28	4 00	11.03	10.00	1.05	.....	7.91	6.00	34.06	33.20
21013	Dead Shot Phosphate	Baltimore	.72	.50	2.43	2.00	1.35	.....	8.13	8.00	15.61	13.60
21162	Dead Shot Phosphate	Airey (O. F. H.)	.58	.50	2.35	2.00	.97	.....	8.02	8.00	14.68	13.60
21103	Delaware Corn Grower	Baltimore	.....	.....	2.81	3.00	.52	.....	7.13	6.00	9.33	8.40
21169	Dissolved Animal Bone	Baltimore	2.58	2.50	.....	.....	4.35	.....	10.33	12.00	24.46	24.40
19637	Fine Ground Bone	Laurel	3.33	3.00	.....	.....	*24.86	*22.80	.....	.....	28.24	25.68
19592	Gem Alkaline Phosphate	Baltimore	.....	.....	2.88	3.00	.87	.....	6.48	6.00	8.88	8.40
19640	Genuine Corbett's Mixture 12 & 5	Baltimore	.....	.....	5.24	5.00	1.20	.....	12.59	12.00	16.81	15.80
21176	Genuine German Kainit	Bellevue	.....	.....	12.94	12.00	.....	.....	.....	.....	.....	.....
21059	Ideal Corn Grower	Cumberland	1.21	1.00	4.19	4.00	.82	.....	8.77	8.00	19.88	17.60
21020	Pure Ground Bone	Pikesville	4.64	4.00	.....	.....	*21.46	*20.00	.....	.....	31.44	28.00
21125	Royal Alkaline Bone	Baltimore	.....	.....	4.03	4.00	1.00	.....	10.35	10.00	13.55	13.00
21060	Special Potash Mixture	Thurmont	1.11	1.00	8.16	7.00	1.07	.....	9.66	9.00	24.62	21.80
21014	Special Tomato Fetilizer	Baltimore	1.01	1.00	4.18	4.00	1.47	.....	7.95	8.00	18.35	17.60
21129	Square Deal Phosphate	Baltimore	2.03	2.00	4.13	4.00	1.25	.....	8.47	8.00	22.91	21.60
21088	Super-Phosphate 16%	Baltimore	.....	.....	.....	.....	.72	.....	16.03	16.00	14.57	14.40
19680	Top Notch Phosphate	Glen Arm	2.08	2.00	4.92	5.00	1.22	.....	8.55	8.00	23.99	22.60
21048	Young's Melon Fertilizer	Salisbury	3.05	3.00	10.24	10.00	1.50	.....	10.46	10.00	35.59	34.00

	A. A. C. Co. (Canton), Balto., Md.											
21021	Baker's Diss. S. C. Phosphate	Reisterstown	.....	.....	.....	.....	.65	.....	14.57	14.00	$13.24	$12.60
21080	Baker's Fish Guano	Maple Grove	2.01	2.00	2.29	2.00	1.55	.....	8.14	8.00	20.72	19 60
20942	Baker's Sp. Wheat Corn & Grass	Baltimore	1 19	1.00	2.40	2.00	1.32	.....	9.20	9.00	18.73	16.80
20939	Baker's Standard H. G. Guano.	Baltimore	2.80	2.50	3.07	3.00	2.25	.....	7.65	8.00	24.35	22.60
20943	C. C. C. Special Compound	Baltimore	2.66	2.50	6.48	6.00	1.25	.....	8.23	8.00	27.50	25.60
21138	Eagle Phosphate	Baltimore	1.11	1.00	1.12	1.00	1.57	.....	7.18	7.00	14.81	13.40
21061	Harrow Brand Crop Grower	Thurmont	1 04	1.00	1.48	1.00	1.55	.....	8.08	8 00	15.96	14.60
21006	Potato Manure	Baltimore	1.81	1.50	5.15	5 00	1.37	.....	6.34	6.00	20.55	18.20
20962	Soluble Phos. & Potash	Baltimore	.....	.....	2.13	2.00	.82	.....	10.32	10.00	11.58	11.00
20974	Truckers' Delight	Baltimore	4.86	5.00	5.29	5.00	1.60	.....	8.14	7.00	35.14	33.40
	A. A. C. Co. (Detrick), Balto., Md.											
19611	Ammoniated Bone Phosphate	Baltimore	1.64	1.50	2.14	2.00	1.82	.....	8.76	9.00	19.94	18.80
20986	Corn and Oats Fertilizer	Baltimore	1.01	1.00	3.19	3.00	1.37	.....	9.26	9.00	18.89	17.80
20908	Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.62	.....	15.03	14.00	13.65	12.60
21130	Fish Mixture	Baltimore	2.12	2.00	2.07	2 00	1.20	.....	8.73	8.00	21.51	19.60
20909	Gold Basis	Baltimore	7.12	7.00	5.60	5.00	1.40	.....	6.24	6.00	42.13	40.20
20963	Gold Eagle	Baltimore	3.05	3.00	6.28	6.00	1.50	.....	6.55	6.00	26.94	25.20
19562	Imperial Compound	Baltimore	1.02	1.00	2.17	2.00	1.32	.....	9.57	8.00	18.26	15.60
21007	K. K. K. Kangaroo Kom. Kom.	Baltimore	2.10	2.00	3.22	3.00	.80	.....	8.29	8.00	21.89	20.60
21113	P. & B. Special Fertilizer	Baltimore	.....	.....	3.21	3.00	1.17	.....	11.69	12.00	13.96	13.80
21057	Paragon Amm'd Phos. & Pot.	Burnt Mills	1.26	1.00	1.46	1.00	1.00	.....	8.76	7.00	17.41	13.40
19593	Phos. & Pot. 16x4 Mix	Baltimore	.....	.....	2.19	2.00	1.65	.....	10.64	11.00	12.10	11.90
21058	Quick Step	Burnt Mills	3.04	3.00	3.88	4.00	.75	.....	8.91	8.00	27.03	25.60
21131	Royal Crop Grower	Baltimore	2.01	2.00	2.71	2.00	1.10	.....	8.21	8.00	21.04	19.60
20932	Soluble Phosphate & Potash	Baltimore	.....	.....	2.41	2.00	1.17	.....	10.05	10.00	11.69	11.00
19599	Special Mixture	Baltimore	1.11	1.00	1.30	1.00	1.43	.....	8.02	8.00	15.93	14.60
19671	Special Tobacco Fertilizer	Baltimore	3.02	3 00	3.28	3.00	1.57	.....	8.11	8.00	25.72	24.60
21022	Standard Potash Fertilizer	Pikesville	1.45	1.00	5.16	5.00	1.07	.....	6.34	8.00	19.00	18.60
19670	Victory Alkaline Bone	Baltimore	.....	.....	5.42	5.00	1.65	.....	12.02	12.00	16.57	15.80
	A. A. C. Co. (Lazaretto), Balto., Md.											
21081	Ammoniated Phosphate	Hampstead	1.01	1.00	2.32	2.00	1.67	.....	8.07	8.00	16.71	15.60
19554	Crop Grower	Baltimore	1.83	2.00	2.62	2.00	1.40	.....	8.05	8.00	20.16	19.60
19687	Dissolved Phosphate	.....	.....	.....	.....	.....	.75	.....	14.62	14.00	13.31	12 60
21062	Dissolved Bone Phos. & Pot.	Cumberland	.....	.....	2.33	2.00	1.22	.....	7 67	8.00	9 47	9.20
19638	Dissolved Phosphate & Pot.	Baltimore	.....	.....	2.31	2.00	1.05	.....	9 82	10.00	11 36	11.00
20910	Early Trucker	Baltimore	5.10	5.00	4.79	5.00	1.45	.....	7 33	7.00	34 57	33.40

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	A. A. C. Co. (Lazaretto), Balto., Md.											
21023	Excelsior A. A. A	Glen Morris	1.01	1.00	1.10	1.00	1.47	.....	7.01	7.00	$14.14	$13.40
19648	Fish Mixture	Baltimore	2.10	2.00	2.12	2.00	1.10	.....	8.03	8.00	20.60	19.60
21099	H. G. Dissolved Bone and Pot.	Baltimore	.....	.....	6.69	6.00	.55	.....	7.31	7.00	13.38	12.30
21094	H. G. Diss. Bone Phos. and Pot.	Baltimore	.....	.....	5.25	5.00	.77	.....	10.02	10.00	14.42	14.00
20911	Retriever Animal Bone Fertilizer	Baltimore	2.32	2.25	4.38	4.00	3.17	4.50	9.69	9.00	26.56	25.60
21040	Special Ammoniated Compound.	Bel Air	1.27	1.25	3.42	3.00	1.72	.....	8.61	9.00	19.52	18.80
20976	Special Potato and Tobacco Fert.	Baltimore	1.30	1.00	4.31	4.00	1.52	.....	8.07	8.00	19.80	17.60
20928	Tomato Compound	Baltimore	1.60	1.50	4.89	5.00	1.42	.....	5.85	6.00	18.88	18.20
21170	Wheat, Corn and Grass Grower.	Baltimore	.56	.50	2.41	2.00	1.25	.....	7.74	8.00	14.44	13.60
	A. A. C. Co. (Maryland), Balto., Md											
21180	Alkaline Phosphate	Maugansville	.....	.....	3.22	3.00	1.47	.....	11.78	12.00	14.11	13.80
19578	Ammoniated Phosphate	Baltimore	2.02	2.00	3.18	3.00	1.42	.....	8.17	8.00	21.63	20.60
21104	Bono Super-Phosphate	Baltimore	.....	.....	2.27	2.00	1.15	.....	10.01	10.00	11.51	11.00
21114	Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.75	.....	15.22	14.00	13.85	12.60
20987	Special Compound	Baltimore	2 03	2.00	9.39	10.00	1.37	.....	8.91	8.00	28.75	27.60
20956	Special Mixture	Baltimore	2.71	2.50	2 63	2.50	1.80	.....	9.77	10.50	25.91	25.10
	A. A. A. Co. (Nickerson), Easton, Md											
21008	Acid Phosphate	Baltimore	.....	.....	.....	.....	.72	.....	14.41	14.00	13.11	12.60
19656	Alkaline Bone and Potash	Baltimore	.....	.....	2.12	2.00	.65	.....	10 38	10.00	11.59	11.00
21132	Dissolved Bone and Potash	Baltimore	.....	.....	5 60	5.00	.65	.....	12.15	12.00	16.67	15.80
19582	Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.94	.....	14.03	14.00	12.82	12.60

20933	Early Queen	Baltimore	5.12	5.00	5.77	5.00	1.97	.....	7.23	7.00	35.72	33.40
19600	Eastern Shore Domestic Guano.	Baltimore	2.03	2.00	3.13	3 00	1.37	.....	8.46	8.00	21.95	20 60
20990	Fish, Bone and Potash	Baltimore	3.03	3.00	4.34	4.00	1.42	.....	8.30	8.00	26.99	25.60
20944	H. G. Vegetable Compound	Baltimore	a7.02	7.00	5.66	5.00	2.62	.....	6.13	6.00	42.15	40.20
20975	Tomato Fertilizer	Baltimore	1.01	1.00	4.47	4.00	1.35	.....	8.35	8.00	19.07	17.60
20991	Truck Guano	Baltimore	2.05	2.00	2.36	2 00	1.27	.....	8.39	8.00	21.14	19.60
	A. A. C. Co. (Packers Union), Rutland, Vt.											
21049	Universal Fertilizer	Princess Anne	1.14	1.00	4.47	4.00	1.50	.....	8.30	8.00	19.59	17.60
	A. A. C. Co. (Reese), Balto., Md.											
19566	Dissolven Phosphate of Lime	Baltimore	.....	.....	.....	.....	.55	.....	14.18	14.00	12.87	12.60
20957	Potato and Truck Special	Baltimore	4.03	4.00	7.60	7.00	1.72	.....	8.19	8.00	34.24	32.60
	A. A. C. Co. (Slingluff), Balto., Md.											
20913	Tobacco Plant Bed Fertilizer	Baltimore	8.36	10.00	3.10	2.50	1 10	.....	5.72	4.00	43.84	47.30
20968	Top Dresser	Baltimore	a5.12	5.00	3.50	2.00	1.05	.....	5.79	5.00	31.35	28.00
	A. A. C. Co. (Susquehanna), Baltimore, Md.											
19618	Ammoniated Phosphate	Baltimore	2.06	2.00	2.41	2.00	1.30	.....	8.33	8.00	21.17	19.60
19625	Crop Grower	Baltimore	a1.25	1.00	1.27	1.00	1.52	.....	7.20	7.00	15.52	13.40
20999	High Grade Phos. and Potash	Baltimore	.....	.....	5.31	6.00	1.25	.....	12.04	12.00	16.40	16.80
20992	Potato and Tobacco Phosphate	Baltimore	2.03	2.00	5.33	5.00	1.47	.....	8.57	8.00	24.32	22.60
21133	Soluble Bone and Potash	Baltimore	.....	.....	2.22	2.00	.62	.....	10 54	10.00	11.83	11.00
20993	Superior Rock Phosphate	Baltimore	.....	.....	.....	.....	1 15	.....	14.39	14.00	13.18	12.60
21095	X. X. V. Phosphate	Baltimore	1.13	1.00	1.35	1.00	1 97	.....	7.56	8.00	15.73	14.60
	A. A. C. Co. (Tygert Allen), Philadelphia, Pa.											
20916	Guano 7%	Baltimore	7.32	7.00	6.01	5.60	1.40	.....	6.09	6.00	43.16	40.20
21105	Standard Brand Phosphate	Baltimore	2 01	2.00	2.01	2.00	1.47	.....	8.59	8.00	20.95	19.60
20912	Star Dissolved S. C. Rock	Baltimore	.....	.....	.....	.....	.55	.....	14.45	14.00	13.12	12.60
19583	Star Soluble Phos. and Potash	Baltimore	.....	.....	2.08	2.00	1.37	.....	9.90	10.00	11.26	11.00
	A.A.C. Co.(Wheeler), Rutland, Vt.											
20934	Bone and Potash	Baltimore	.....	.....	3.38	3.00	1.70	.....	13 01	12.00	15.43	13.80
21050	General Crop Grower	Princess Anne	2.10	2.00	2.14	2.00	1.60	.....	8.08	8.00	20.88	19 60
21126	Peerless Acid Phosphate	Baltimore	.....	.....	.....	.....	.82	.....	14 85	14.00	13.53	12.60
19649	Potato Manure	Baltimore	2.51	2.50	3.20	3.00	1.25	.....	8.30	8.00	23.70	22.60
21134	Royal Wheat Grower	Baltimore	1.08	1.00	2.11	2.00	1.30	.....	8.01	8.00	$16.56	$15.60
20921	Superior Trucker	Baltimore	3.79	4.00	7.92	7.00	1.76	.....	8.39	8.00	33.85	32.60

aContains Nitrate.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	A. A. C. Co. (Zell), Balto., Md.											
21024	Ammoniated Super-Phos.	Glen Arm	2 15	2.00	2.27	2.00	1.40	.....	8.40	8.00	21.51	19.60
21063	Dissolved Phosphate	Cumberland	.....	.....	.....	.....	1.40	.....	14.03	14.00	12.91	12.60
20988	Economizer Phosphate	Baltimore	1 02	1.00	2.01	2.00	1.52	.....	8.31	8.00	16.67	15.60
19601	Electric Phosphate	Baltimore	.....	.....	2.16	2.00	.87	.....	9.92	10.00	11.26	11.00
19672	Hustler Phosphate	Baltimore	1.31	1.00	3.56	3.00	1.50	.....	8.45	9 00	19.54	17.80
21064	Little Giant	Cumberland	1.42	1.00	1.25	1.00	1.25	.....	9.19	7.00	18.46	13.40
20929	Special Compound	Baltimore	2.95	3.00	4.71	4.00	1.48	.....	8.10	8.00	26.82	25 60
	American Fert. Co., Balto., Md.											
21065	Ammoniated Bone Compound	Motters	1.19	1.00	b2.29	2.00	1.52	1.00	8.28	8.00	18.06	16.40
20922	Champion Grain Grower	Baltimore	1.09	1.00	3 64	4.00	1.42	1.00	8.59	8.00	18.88	18.00
19567	Dissolved Bone and Potash	Baltimore	.....	.....	2.02	2.00	1.55	1.00	10.33	10.00	11.63	11.20
21487	Double Dissolved Bone and Pot.	Baltimore	.....	.....	4.19	4.00	1.47	1.00	10.04	10.00	13.52	13.20
21139	Double Extra Bone and Potash.	Baltimore	.....	.....	5.05	5 00	1.97	1.00	11.79	12.00	16.05	16.00
21185	Eagle Crop Grower	Baltimore	1.76	2.00	2.37	2.00	1.75	1.00	8.32	8.00	20.09	20.00
20969	Excelsior Guano	Baltimore	2.10	2.00	b5.01	5 00	1 82	1.00	8.81	8.00	25.71	24.00
20965	Fish and Bone Compound	Baltimore	1.95	2.00	3.03	3.00	2.10	1.00	8.79	8.00	22.22	21.00
19662	Fish and Bone Compound	Baltimore	2.22	2.00	b3 04	3.00	3.02	1.00	7.82	8.00	23.12	21.60
19579	Formula for Wheat and Corn	Baltimore	.....	.....	4.68	5.00	1.60	1.00	10.61	10.00	14.55	14.20
21109	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	1.17	1.00	14.29	14.00	13.09	12.80
21186	Prize Truck Guano	Baltimore	2.03	2.00	b9.86	10.00	2.30	1.00	8.04	8 00	30.52	30.00
19568	Reliable Guano	Baltimore	1.18	1.00	1.49	1.00	1.55	1.00	8.38	8.00	16.89	15.00
20994	Special Compound Guano	Baltimore	.65	.50	3.77	3.00	.87	1.00	7.55	8.00	15.78	13.80

19675	Special Formula	Motters	.97	.50	2.27	1.00	1 97	1.00	9.62	8.00	$18.47	$13.00
20945	Special Potash Mixture	Baltimore	.....	.....	3.85	4.00	1 2	1.00	8.86	8.00	12.06	11.40
20966	Special Potato Manure	Baltimore	4.69	5.00	b7.22	7.00	2.9	1.00	6.27	6.00	36.10	36.00
20964	Special Super-Phosphate	Baltimore	.....	.....	3.33	3.00	1.2	1.00	6.94	6.00	9.82	8.60
19639	Stable Manure Substitute	Baltimore	2.73	3.00	4.01	4.00	2 10	1.00	7.30	7.00	24 53	24.80
	Armour Fert. Wks., Balto., Md.											
21098	Acidulated Bone Black	Baltimore	.....	.....	.....	.....	.32	.50	17.03	16.00	15.39	14.50
19641	Acid Phosphate	Baltimore	.....	.....	.....	.....	.92	.50	16.73	15.00	15.24	13.60
19630	All Soluble	Baltimore	a3.31	3.50	4.50	4.00	1.45	.50	8.05	8.00	27.98	27.80
19642	Ammoniated Bone with Potash	Baltimore	a2.41	3 00	2.48	2.00	.85	.50	8.52	6.00	22.68	21.40
21036	Banner Brand	Baltimore	.....	.....	7.68	8.00	.97	.50	10.17	10.00	17.02	17.10
20995	Bone, Blood and Potash	Baltimore	a5 07	5.00	7.94	7.00	55	.50	8.11	8.00	38.17	36.80
19580	Bone Meal	Baltimore	3.38	3.00	.....	.....	21.81	*24.00	.....	.....	26.61	26.40
19584	Cereal Phosphate	Baltimore	.....	.....	.....	.....	.25	.50	10.25	10.00	9.28	9 10
21115	Crop Grower	Baltimore	1.02	1.00	2.40	2.00	.37	.50	8.75	8.00	17.13	15.80
19612	Dissolved Bone	Baltimore	2.05	2.00	.....	.....	3.32	.....	11.26	11.00	23.04	21.20
21168	Dissolved Bone	Worton (B. C. H.)	2.02	2.00	.....	.....	3.40	.....	11.15	11.00	22.82	21.20
20977	Fruit and Root Crop Special	Baltimore	a2.10	2.00	5.02	5.00	.95	.50	8.10	8.00	23 52	22 80
21100	Grain Grower	Baltimore	1.76	2.00	2.45	2.00	.70	.50	8.10	8.00	19.49	19.80
20970	High Grade Potato	Baltimore	a2.05	2.00	10.76	10.00	.80	.50	8.44	8.00	29.41	27.80
20971	Manure Substitute	Baltimore	a4 04	4.00	4.93	4.00	.90	.50	6.03	6.00	28 69	27.40
21000	Phosphate and Potash	Baltimore	.....	.....	5.02	5.00	.32	.50	12.03	12.00	15 91	15.90
21015	Phosphate and Potash No. 1	Baltimore	.....	.....	2.08	2.00	.22	.50	9.80	10.00	10.94	11.10
21029	Phosphate and Potash No. 2	Federalsburg	.....	.....	5.45	5.00	.35	.50	8.24	8.00	12.94	12.30
19657	Potash Mixture	Baltimore	.....	.....	2.67	3.00	.50	.50	6.69	6.00	8.79	8 50
21172	Raw Bone Meal	Colora	4.44	4.50	.....	.....	*23.17	*22.00	.....	.....	31.66	31.20
21068	Royal Ammoniated Bone	Providence	1.01	1.00	4.58	4.00	.85	.50	7.92	8 00	18.45	17.80
21167	Royal Ammoniated Bone	Vienna (E. H.)	1.09	1.00	4.17	4.00	1.17	.50	8.11	8.00	18.73	17.80
21164	Special Mixture	Spring Gap (H W M)	3.87	4.00	12.11	10.00	1.40	.....	8.30	8.00	38.11	35.60
19585	Special Mixture	Baltimore	.60	.50	1.58	1.00	.57	.50	8.09	8.00	13.92	12.80
21001	Special Trucker	Baltimore	a3.77	4.00	5.03	4.00	.82	.50	8.21	8.00	30.29	29.80
20978	Star Phosphate	Baltimore	.....	.....	.....	.....	.25	.50	14.03	14.00	12.68	12.80
21069	Superior Bone and Potash	Providence	1.02	1 00	6.84	7.00	1.07	.....	7.73	8.00	20.63	20.60
21135	Sure Crop	Baltimore	.....	.....	5.40	5.00	.45	.50	7.87	8.00	12.57	12.30
21016	Tomato Grower	Baltimore	a2.03	2.00	2.61	2.00	1.05	.50	8.37	8.00	21.19	19.80
20979	Truck and Berry Special	Baltimore	a3.58	3.00	10.41	10.00	.80	.50	8.08	8.00	34.75	31.80
20900	Trucker 10%	Baltimore	a8.28	10.00	5.70	3.00	1.20	.50	5 59	5.00	46.01	49.20
19658	Valley Brand Tobacco	Baltimore	a2.17	2.00	b5.01	5.00	1.02	.50	8.01	8.00	24.71	23.80

aContains Nitrate. bAs Sulfate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Armour Fert. Works, Balto., Md.											
20906	Wheat, Corn and Oat Special..	Baltimore.....	a1.26	1.00	2.32	1.00	.82	.50	7.07	7.00	$16.17	$13.60
21177	Wheat and Clover Fertilizer....	Cambridge.....	.....	.....	5.03	5.00	.90	.50	9.06	10.00	13.36	14.10
19555	Wheat and Grass Special.....	Baltimore.....	a1.02	1.00	4.38	5.00	.90	.50	7.12	7.00	17.36	17.60
21136	Wheat Special.....	Baltimore.....	1.16	1.00	2.18	2.00	.50	.50	8.43	8.00	17.14	15.80
	Atlantic Fert. Co., Baltimore, Md.											
21154	Acid Rock.....	Westminster(B F S)	.....	.....	.....	.....	1.42	.....	15.91	16.00	14.60	14.40
19563	Arrow Brand Special.....	Baltimore.....	1.35	1.00	5.38	4.00	1.25	.....	5.54	8.00	17.93	17.60
19631	Big 4 Blood, Bone, Fish & Pot.	Laurel.....	3.24	3.00	7.32	6.00	1.32	.....	5.21	6.00	27.06	25.20
20953	Dissolved Bone Phos.....	Baltimore.....	.....	.....	.....	.....	1.77	.....	15.24	14.00	14.07	12.60
20958	Early Truck and Veg. Manure..	Baltimore.....	4.10	4.00	5.68	5.00	.50	.....	7 63	6.00	31.44	28.20
21002	Farmers' Alkaline Mixture... .	Baltimore.....	.....	.....	2.60	2.00	.25	.....	10.06	10.00	11.70	11.00
20946	Gold Medal Superior.....	Baltimore.....	1 95	2.00	3.81	3.00	.55	.....	9.57	8.00	23.31	20.60
21033	Jumbo Crop Grower.....	Baltimore.....	.....	.....	5.30	5.00	.75	.....	12.78	8.00	16.95	12.20
19685	Matchless A. B. C. Food.....	Baltimore.....	1.40	.50	3.02	3 00	1.27	.....	7.01	8.00	17.54	14.60
20959	Royal Potato & Tomato Manure.	Baltimore.....	2.34	2.00	5.89	5.00	.27	.....	8.51	7.00	25.57	21.40
20948	7% Potato and Vegetable Comp.	Baltimore.....	a6.16	7.00	5.66	5.00	.37	.....	7 39	6.00	39.32	40.20
20954	Truck Grower.....	Baltimore.....	a5.07	5.00	5.69	5.00	.52	.....	7.43	6.00	35 10	32.20
21110	XX Special Compound.....	Baltimore.....	1.83	2.00	9.84	10.00	.75	.....	9.40	8.00	28.74	27.60
	C. A. Baile & Co., Medford, Md.											
21082	Bone Phosphate No. 3.....	Medford.....	1.19	1.25	2.21	2.00	1.05	1.50	10.91	9.50	20.48	19.00

	Baltimore Fert. Co., Balto., Md.											
19663	Honest Acid Phosphate	Baltimore					1.01		14.01	14.00	12.81	12.60
19664	Honest A. K. Bone	Baltimore			4.33	3.00	.45		7.31	8.00	11.00	10.20
21127	Honest Ammoniated Bone	Baltimore	a2.15	2.00	2.22	2.00	.75		8.75	8.00	21.62	19.60
21106	Honest Bone Phosphate	Baltimore	.53	.25	1.37	1.00	.50	1.00	7.76	7.00	13.00	10.80
20980	Honest Bone and Potash	Baltimore			2.48	2.00	.42		10.56	10.00	12.06	11.00
21116	Honest Crop Grower	Baltimore	1.33	1.00	2.63	1.00	1.67		8.39	8.00	18.69	14.60
21101	Honest Harvest	Baltimore	a1.47	1.00	3.04	2.50	1.27		8.45	9.00	19.57	17.30
20981	Honest Potato Grower	Baltimare	2.10	2.00	7.01	8.00	.70	1.00	6.86	6.00	23.92	23.60
21137	Honest Revenue	Baltimore	a3.26	3.00	6.69	6.00	.85		7.33	7.00	28.87	26.40
20972	Honest Standard	Baltimore	a2.05	1.25	4.17	3.00	1.42		9.05	10.00	23.80	20.00
21037	Honest Success	Baltimore	a1.60	1.00	4.68	4.00	1.07		7.86	7.00	20.94	16.40
20973	Honest Trucker	Baltimore	a4.90	5.00	5.47	5.00	1.75		6.81	6.00	33.94	32.20
21038	Old Honesty	Baltimore	.52	.50	2.79	2.00	.97	1.00	8.66	8.00	15.65	14.00
	Balto. Pulverizing Co., Balto., Md.											
21091	Corn Grower	Baltimore			3.35	2.00	.50		8.71	10.00	11.29	11.00
21092	H. G. Potato Guano	Baltimore	2.13	2.00	10.07	10.00	1.85		8.78	8.00	29.87	27.60
20930	Penniman's Excelsior Fert	Baltimore			4.85	2.50	.95		7.86	10.00	12.11	11.50
20931	S. C. Bone	Baltimore					1.82		14.73	14.00	13.62	12.60
21171	Truckers' Choice	Baltimore	a3.33	3.00	3.28	1.50	1.65		7.15	8.00	25.84	23.10
	Baugh & Sons Co., Balto., Md.											
20924	Acid Phosphate 16%	Baltimore					.30		16.44	16.00	14.86	14.40
19679	Ammoniated Soluble Alkaline	Traver's Wf	.58	.50	2.48	2.00	2.70		8.28	8.00	15.82	13.60
21025	Animal Base and Pot. Comp	Phoenix	2.09	2.00	2.13	2.00	2.15		7.81	8.00	20.72	19.60
21041	Complete Animal Base Fert	Glen Cove	2.02	2.00	5.46	5.00	2.32		8.06	8.00	24.14	22.60
21158	Comp. Animal Base Fert.	Baltimore	1.77	2.00	6.71	5.00	2.70		8.46	8.00	25.02	22.60
21083	DeLashmutt's Sp. Corn & Potato	Woodbine	1.01	1.00	4.87	5.00	2.20		8.48	8.00	19.97	18.60
21066	Double Eagle Phos	Hancock	2.18	2.00	1.52	1.00	2.90		8.64	8.50	21.77	19.20
20949	Excelsior Guano	Baltimore	1.23	1.00	4.36	4.00	1.97		8.14	8.00	19.84	17.60
21017	Export Bone with Potash	Baltimore	1.50	2.00	3.53	2.00	4.37		8.09	11.00	20.99	23.20
21102	Farmers' Friend Guano	Baltimore	4.90	5.00	5.38	5.00	1.10		7.25	6.00	34.12	32.20
21093	Fish, Bone and Potash	Baltimore	3.48	4.00	4.34	4.00	1.17		8.97	8.00	29.49	29.60
20940	Fish Mixture	Baltimore	a2.17	2.00	2.35	2.00	1.82		7.71	8.00	21.01	19.60
20950	General Crop Grower	Baltimore	1.02	1.00	1.04	1.00	2.52		7.78	8.00	15.47	14.60
20917	Grand Rapid H. G. Truck Guano	Baltimore	3.02	3.00	3.40	3.00	2.35		8.04	8.00	26.07	24.60

aContains Nitrate. bAs Sulfate.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH. K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Baugh & Sons Co., Balto., Md.											
19686	High Grade Acid Phosphate	.....	.....	.....	.....	.....	.97	.....	15.19	14.00	$13.86	$12.60
21056	H. G. Cotton and Truck Guano.	Rockville	2.12	2.00	2.07	2.00	.85	.....	10.63	10.00	23.65	22.00
20923	High Grade Potash Mixture	Baltimore	.....	.....	4.54	4.00	2.50	.....	10 30	10.00	14.31	13.00
20918	High Grade Guano	Baltimore	3 16	3.00	3.42	3 00	2.20	.....	8.35	8.00	26.96	24.60
21181	One-Quarter Mixture	Lydia	a1.95	1 75	3 02	3.00	4.30	.....	8.87	12.00	23.18	24.40
21010	Peninsula Grain Producer	Baltimore	a1.23	1.21	2.40	2.00	1.62	.....	8.50	8.00	18.17	16.44
20901	Peruvian Guano 10%	Baltimore	a10.10	10.00	.....	.....	.....	.....	.....	.....	30.30	30.00
20903	Peruvian Guano Substitute	Baltimore	a5.02	5.00	7.37	7.00	1.72	.....	6.89	6.00	36 41	34.20
21150	Peruvian Guano Substitute	E. N. Mkt. (C.E.S.)	4.74	5.00	7.18	7 00	.67	.....	6.52	6.00	34 23	34.20
20989	Phosphate and Potash	Baltimore	.....	.....	5.64	5.00	1.57	.....	12 09	12.00	16 83	15.80
20919	Potato Guano 7%	Baltimore	a6.79	7.00	5.49	5.00	1.25	.....	6.46	6.00	40 90	40.20
20960	Potato and Truck Special	Baltimore	a3 53	3 50	7.32	7.00	1.40	.....	7.77	7.00	31 32	29.40
19569	Pure Bone and Muriate Pot. Mix.	Baltimore	2 37	3.00	4.84	5.00	5.57	.....	6 21	15.00	24.00	35.00
21026	Pure Bone and Muriate Pot. Mix.	Phoenix	3 02	3.00	4 32	5.00	7.52	.....	8.96	15.00	30.16	35.00
21042	Pure Dissolved Animal Bone	Aberdeen	2 78	2 50	.....	.....	1.90	.....	12.35	13 00	26.70	25.60
16674	Pure Raw Bone Meal	.....	4.44	4.50	.....	.....	*21.74	*21.50	.....	.....	30.80	30.90
21166	Pure Raw Bone Meal	Massey (I. G.)	4 08	4.50	.....	.....	*20.63	*21.50	.....	.....	28.70	30.90
21067	Soluble Akaline Super-Phos	Cumberland	.....	.....	2.29	2.00	.97	.....	10.55	10.00	11.98	11.00
20915	Special Potato Mixture	Baltimore	2.03	2.00	12.82	10.00	2 10	.....	5 18	5.00	28 00	24.00
20925	Strawberry Mixture	Baltimore	a3.40	3 00	6 56	5.00	.65	.....	7.93	7.00	29.94	25.40
20951	3. 6. 6. Guano	Baltimore	3.23	3.00	5 52	6.00	1.45	.....	6.97	6.00	27.38	25.20
20941	Tomato Compound	Baltimore	a2.18	2.00	2.31	2.00	1.85	.....	9.29	8.00	22.92	19.60

	Beck-Walker Co., Chestertown, Md.											
21030	Good Drilling 10-5	Chestertown	.....	.....	5.69	5.00	1.47	.....	9.83	10.00	$14.83	$14.00
	Berg Company, Philadelphia, Pa.											
19619	Bone Manure $25	Annapolis	2.18	c2.43	3.85	3.00	3.20	.....	7.77	7.00	23.17	21.12
19620	Electric Tobacco Manure	Annapolis	a2.53	e3.65	5.50	8.00	3.20	.....	7.89	9.00	26.07	33.40
21070	Raw Bone	Rising Sun	4.03	d4.86	.....	.....	*22.11	*22.00	.....	.....	29.39	32.64
21043	S. B. M	Fallston	a3.24	d4.86	6.49	8.00	4.32	.....	8.43	9.00	31.30	38.24
19681	S. B. M	Annapolis	a3.21	d4.86	6.19	8.00	4.17	.....	9.25	9.00	31.80	38.24
21071	Victor Volo Bone and Potash	Rising Sun	2.12	c2.43	6.23	5.00	6.90	.....	8.23	7.00	27.35	23.12
	W. H. Bixler, Hagerstown, Md.											
21182	Blood and Bone Fertilizer	Hagerstown	2.53	2.00	b7.64	4.00	4.07	.....	7.87	8.00	30.36	22.40
21183	Bone Phosphate	Hagerstown	1.72	1.50	3.16	2.50	3.37	.....	8.22	8.00	21.25	18.10
	Bowker Fert. Co., Boston, Mass.											
21044	Best Grain Fertilizer	Fallston	1.40	1.50	6.97	6.00	1.00	.....	10.57	10.00	25.65	24.00
21045	Corn and Wheat Fertilizer	Fallston	2.03	2.00	4.48	4.00	1.75	.....	8.07	8.00	22.98	21.60
21046	Farm and Garden Phosphate	Fallston	2.12	2.00	2.14	2.00	1.42	.....	8.37	8.00	21.23	19.60
20914	Potato Guano 7%	Baltimore	7.03	7.00	5.72	5.00	1.35	.....	6.30	6.00	41.94	40.20
19570	Stockbr'g's S. Complete Manure.	Baltimore	4.15	4.00	11.49	10.00	1.55	.....	5.86	8.00	35.74	35.60
	H. Bryant's Son, Alexandria, Va.											
19632	Mammoth Potato Grower	Laurel	a3.16	3.00	5.62	5.00	1.80	.....	8.08	8.00	18.68	26.60
19633	Old Reliable	Laurel	1.14	1.25	3.60	4.00	1.57	....	8.02	8.00	28.41	18.60
	Chesapeake Chem. Co., Balto. Md.											
21073	Alkaline	Graceham	.....	.....	6.25	5.00	1.32	.....	9.63	12.00	15.18	15.80
21074	Celebrated Mixture	Graceham	.....	.....	3.02	2.00	2.15	.....	10.11	8.00	12.55	9.20
21075	Corn and Buckwheat	Graceham	.....	.....	4.12	3.00	1.17	.....	8.09	6.00	11.63	8.40
21076	Imperial Guano	Graceham	.44	.50	2.68	2.00	1.35	.....	8.82	8.00	15.56	13.60
21077	National Crop Grower	Graceham	a1.79	2.00	2.49	2.00	1.30	.....	8.46	8.00	20.32	19.60
19613	Potato Compound	Baltimore	5.43	5.00	4.54	5.00	1.07	.....	6.36	6.00	34.32	32.20
21078	X. L. All Phosphate	Graceham	.....	.....	4.03	5.00	1.65	.....	10.34	8.00	13.67	12.20
	H. Cope & Co., Lincoln Univ., Pa.											
21072	Queen of Elk Valley Phosphate.	Rising Sun	a1.86	2.00	8.02	8.00	.52	2.00	7.47	7.00	24.63	25.20

aContains Nitrate. bAs Sulfate *Total Phosphoric Acid. cNitrogen 2%=Ammonia 2.43%. eNitrogen 3%=Ammonia 3.65%. dNitrogen 4%=Ammonia 4.86%.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	J. Cope & Co., Oxford, Pa.											
21047	Ammoniated Phosphate	Glen Cove	1.19	1.00	3.31	3.00	.92	.....	10.51	10.00	$21.05	$19.00
19650	Potato and Tobacco Phosphate	Baltimore	1.02	1.00	6.94	7.00	.92	.....	10.81	10.00	25.36	23.00
21118	Pure Bone Phosphate	Rising Sun	2.29	2.25	4.61	4.00	3.20	4 50	9.66	9 00	26.64	25.60
19651	Soluble Phosphate and Potash	Baltimore	.....	.....	1.90	2.00	1.00	.....	10.88	10.00	11.89	11.00
19673	Try Me Fertilizer	Baltimore	2.03	2.00	4.26	4.00	1.40	.....	7.83	8.00	22.34	21.60
	L. E.P. Dennis & Son, Crisf'ld, Md.											
21051	Fish and Potash Mixture No. 1	Crisfield	3.24	3.00	4.95	5.00	1.30	.....	6.48	7.00	26.21	25.40
21052	Fish and Potash Mixture No. 2	Crisfield	2.10	2.00	3.69	3.00	1.35	.....	5.85	7.00	19.65	19.40
21053	Special Round Potato Mixture	Crisfield	a4.52	5.00	7.74	6.00	.90	.....	6.72	6.00	34.24	33.20
	Dudley & Carpenter, Balto., Md.											
19602	California Tobacco Compound	Baltimore	3.58	4.00	2.23	2.00	1.17	.....	8.71	8.00	27.47	27.60
20907	Special Tobacco Plant Guano	Baltimore	9.88	10.00	3.41	3.00	1.42	.....	5.34	5.00	49.91	49.00
19571	Special Wheat Mixture	Baltimore	.....	.....	3.44	3.00	1.95	.....	11.20	12 00	13.91	13.80
	Edelen Bros., Baltimore, Md.											
19626	High Grade Tobacco Fertilizer	Baltimore	a3.86	4.00	b3.58	4.00	1.10	.....	8.16	6.00	29.97	48.00
21184	Special Tobacco Bed 10%	Baltimore	a10.52	10.00	4.55	3.00	.45	.....	4.09	4.00	51.72	47.80
21111	Special Tobacco Guano	Baltimore	a3.09	3.00	3.41	3.00	2.17	.....	8.88	8.00	27.30	24.60
21107	Special Wheat and Grain Mix	Baltimore	1.45	1.00	2.04	2.00	.85	.....	9.67	9.00	19.78	16.80
	T. W Eliason, Chestertown, Md.											
19556	Our S. D. Alkaline Phos. and Pot.	Baltimore	.....	.....	2.44	1.50	1.12	.....	12.05	11.00	13.51	11.40

	J. A. Englar Bros. Co., Linwood, Md.											
21084	Ammoniated Bone Phos. No. 2..	Linwood.....	1.18	1.00	2.96	2.40	1.52	.....	9.05	9.80	$19.15	$18.16
	Eureka Fert. Co., Perryville, Md.											
21119	Corn and Potato Special.....	Rising Sun.....	1.08	1.00	3.36	3.00	1.70	.....	7.62	9.00	17.50	18.64
21120	Fish, Bone and Potash.....	Rising Sun	.67	.50	1.74	1.00	1.37	.....	9.09	8.00	15.88	12.60
21121	Potato and Vegetable	Rising Sun.....	1.95	2.00	4.33	4.00	1.92	.....	8.98	8.00	23.68	21.60
	W. S. Farmer & Co., Balto., Md.											
20996	Anne Arundel Trucker.....	Baltimore	4.47	4.50	7.58	7.00	.97	.....	8.64	8.00	36.22	34.60
20997	B. and P. Phosphate.....	Baltimore	.....	.....	2.16	2.00	.95	.....	10.19	10.00	11.52	11.00
21117	Clyde Brand.....	Baltimore	1.01	1.00	2.24	2.00	1.57	.....	7.82	8.00	16.29	15.60
21187	Dissolved S. C. Phosphate.....	Baltimore	.....	.....	.....	.....	.77	.....	14.17	14.00	12.90	12.60
21178	Empire Alkaline.....	Kirby's Wharf	.....	.....	4.88	5.00	.82	.....	10.75	10.00	14.72	14.00
21034	Fish Mixture	Baltimore	2 20	2.00	2.19	2.00	1.32	.....	8.67	8.00	21.92	19.60
21011	Harvest Queen.	Baltimore	1.43	1.25	3.70	3.00	1.58	.....	8.61	9.00	20.38	18.80
20983	Potato and Tobacco Phosphate..	Baltimore	1.89	2.00	10.26	10.00	1.45	.....	9.17	8.00	29.40	27.60
19557	Pure Bone Meal.....	Baltimore	4.56	4.00	.....	.....	*21.93	*20.59	.....	.....	31.40	28.35
19558	Standard Phosphate.....	Baltimore	2.58	2.63	2.82	2.50	1.32	.....	10.51	10.00	26.28	25.02
21039	Standard Phosphate.....	Baltimore	2.68	2.63	2.80	2.50	1.72	.....	9.88	10.00	26.07	25.02
20993	Top Dresser.....	Baltimore	a4.88	5.00	2.34	2.50	.25	.....	6.72	5.00	30.02	28.50
20926	Truckers' Compound	Baltimore	3.11	3.00	4.60	4.00	1.48	.....	8.05	8.00	27.29	25.60
	Farmers' Fert. Co., U. Bridge, Md.											
21085	Bone Phosphate No. 1.....	Union Bridge.....	1.69	1.50	2.97	2.25	2.47	.....	9.36	8.00	21.95	17.85
21086	Union Bridge Favorite	Union Bridge.....	1.23	1.00	2.88	2.00	1.67	.....	9.23	8.00	19.55	15.60
	Farmers' Fert. & Feed Co., West-minster, Md.											
21122	Bone Phosphate No. 1.....	Westminster	2.34	2.50	3.93	2.50	1.70	2.00	10.11	9.00	26.10	24.10
21123	Bone Phosphate No. 2.....	Westminster	2.24	2.00	2.78	2.50	1.10	1.00	10.54	9.00	24.83	21.70
21124	Carroll Bone Phosphate.....	Westminster	.77	.75	2.56	2.00	.95	1.00	7.72	7.00	15 28	13 80
21145	Special Mixture.....	Westm'st'r(B.F.S.)	.....	.....	3.41	2.75	8.52	.....	9.56	8.50	13.71	10.40
21087	XX Bone Phosphate.....	Westminster	1.04	1.00	3.53	3.00	.57	1.00	9.28	9.00	19.06	18.20
	Farmers' & Planters' Co., Salis-bury, Md.											
21160	Crop Grower.....	Pittsville (W. H. B.)	1 37	1.00	2.57	2.00	.82	.....	11.69	10.00	22.41	18.00
21054	Special Fish Mixture	Salisbury.....	2.70	2.50	5.38	5.00	1.55	.....	7.54	8.00	25.85	24.60
21055	Truckers' Mixture.....	Salisbury.....	a3.07	3.50	6.05	4.00	1.67	.....	7.02	8.00	27.42	27.60
	J. W. Freeman, Great Mills, Md.											
19572	Crop Grower	Baltimore	1.16	1.00	1.30	1.00	.90	1.50	8.15	8.00	16.08	15.20

aContains Nitrate. bAs Sulfate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Griffith & Boyd Co., Balto., Md.											
20952	Accomac Trucker	Baltimore	a4.50	5.00	5.85	5.00	1.30		7.90	6.00	$33 85	$32.20
21173	Cereal Bone and Plant Food	Colora	1.37	1.00	1.89	2.00	1.07		9.07	8.00	18.68	15.60
19559	Double Strength Tobacco Grower	Baltimore	2.01	3.00	3.18	3.00	1.27		9.12	8.00	22.67	24.60
21019	Farmers' Potato Manure	Greensboro	1.21	1.00	9.03	9.00	2.60		8.73	8.00	25.39	22.60
21027	Farmers' Potato Manure	White Hall	1.03	1.00	8 14	9.00	2 12		7.44	8.00	22.04	22 60
21141	Fine Ground Fish	Dorc. Co. (R.L.W.)	8.02	9.00			*7.08				28.31	27.00
21142	Fine Ground Fish	Dorc. Co (R.L.W.)	9.47	11.00			*7.43				32.87	33.00
20927	Fish, Bone and Potash	Baltimore	1.93	1.75	3.03	3.00	3.51		8.24	7.00	22.04	18.40
20935	Gem Phosphate	Baltimore			1.81	3.00	2.42		9.65	6.50	10.98	8.85
21012	Gilt Edge Crop Guano	Baltimore	2.10	2.00	9.60	10.00	1.27		8.36	8.00	28 54	27.60
21018	High Grade Acid Phosphate	Baltimore					1.12		15.62	14.00	14 28	12.60
21143	High Grade Acid Phosphate	Dorc Co. (R.L.W.)					.40		16.80	16.00	15.20	14.40
21144	Muriate of Potash	Dorc. Co. (R.L.W.)			52.75	50.00						
21179	Original Super-Phos	Easton					1 22		13.65	12.00	12.53	10.80
20904	Peerless Fertilizer	Baltimore	.61	.35	2.10	2.00	2.17		9.79	8.00	17.16	13.00
20905	Potato Guano 7%	Baltimore	a6.19	7.00	5.97	5.00	1.57		7.29	6.00	40.11	40.20
19573	Pure Dissolved Animal Bone	Baltimore	2.71	2.50			3.70		11.04	10.00	25.57	22.00
21174	Pure Fine Ground Bone Meal	Colora	3.91	4.00			*21.88	*22.00			28.77	29.20
21031	Royal Potash Guano	Crumpton	a.85	1.00	3.54	4.00	1.67		9.12	8.00	18 55	17.60
19574	Soft Ground Bone Meal	Baltimore	2.78	3.00			*13 09	*11.00			18.97	18.60
21028	Soluble Mixture 12x5	White Hall			6.44	5.00	2.30		10.83	12.00	16.65	15.80
21003	Special Grain Grower	Baltimore			5.56	2.00	1.72		10.79	10.00	12.61	11.00

21035	Special Guano	Baltimore	2.04	2.00	5.22	5.00	1.75	.....	8.85	8.00	$24.70	$22.60
20936	Spring Crop Grower	Baltimore	1.84	2.00	5.66	4.50	2.40	.....	6.54	6.50	21.83	20.30
20937	Stable Manure Substitute	Baltimore	3.31	3.50	5.08	4.00	2.23	.....	5.02	5.00	25 23	24.00
21004	Valley Fertilizer	Baltimore	.80	.50	2.76	3.00	1.82	.....	8.64	8 00	17.06	14.60
20955	Vegetable Bone	Baltimore	3.02	3.00	7.07	7.00	1.75	.....	9.36	8.00	31 08	28.60
20938	XX Potash Manure	Baltimore	.....	.....	5.08	5.00	1.77	.....	10.69	10.00	15.05	14.00
	Griffith & Turner Co., Balto., Md.											
20984	Ammoniated Alkaline Plant Food	Baltimore	a1.23	1.00	2.09	1.50	1.75	1.00	8.32	6.50	17.69	13.70
20985	Amm'ted Butchers' Bone Phos.	Baltimore	a1.18	1.25	3.01	1.50	1.67	1.00	8.87	9.00	19.04	17.70
19634	Animal Bone Phosphate	Baltimore	a1.83	2.50	3.08	1.50	2.10	1.00	7.97	10.00	20.80	23 90
21128	Soft Ground Bone	Baltimore	1.96	2.00	.....	.....	*24.12	*22.90	.....	.....	22.31	21.74
21096	Special Potato Mixture	Baltimore	1.02	1.00	4 84	5.00	1.57	.....	7.58	8.00	18.65	18.60
	Hampstead Fertilizer Co., Hampstead, Md.											
21441	Grain and Grass Grower	Hampstead	2.03	2.00	2.58	2.00	1.57	.....	8.74	8.00	21.82	19.60
21442	Honesty	Hampstead	1.02	1.00	2 39	2.00	1.00	.....	8.53	8.00	17.11	15.60
21443	Standard	Hampstead	1.45	1.25	4.36	3.00	.87	.....	10.27	10.00	22.83	20.00
	S. M. Hess & Bro., Phila., Pa.											
21485	Farmers Cereal King	Baltimore	.....	.....	3.11	3.00	.77	.....	12.54	12.00	14.55	13.80
21261	Fish and Potash Manure	Baltimore	2 01	2.00	3.31	3.00	1.35	.....	8 24	8.00	21.78	20.60
21262	Keystone Phosphate	Baltimore	1.83	1.00	2.10	1.00	1.50	.....	8.16	8.00	19.81	14.60
21242	Peerless Phosphate	Baltimore	.....	.....	4.93	5.00	1.62	.....	12.14	12.00	16.18	15.80
21322	Potato and Truck Manure	Baltimore	3.05	3.00	6.64	6.00	1.40	.....	8.90	8.00	30.08	27.60
21254	Soluble Phosphate and Potash	Baltimore	.....	.....	2.29	2.00	1.00	.....	10.12	10.00	11.60	11.00
21474	Soluble Phosphate and Potash	Baltimore	.....	.....	2.98	2.00	.70	.....	8.82	10.00	11.06	11.00
21308	Soluble Phosphate	Baltimore	.....	.....	.....	.....	1.27	.....	14.15	14.00	12.99	12.60
19603	Special Compound	Baltimore	a1.13	1.00	4.29	4.00	1.50	.....	8.03	8.00	19.05	17.60
19539	Special Corn Manure	Leslie	1.08	1.00	2.53	2.00	1.37	.....	8.21	8.00	17.25	15.60
21233	Special Potato Manure	Baltimore	4.10	4.00	7.47	7.00	2.30	.....	8.43	8.00	34.91	32.60
21350	Wheat and Grass Manure	Pocomoke City	1.01	1.00	2.11	2.00	1.30	.....	8.34	8.00	16.68	15.60
	Wm. H. Hood, Mt. Airy, Md.											
21444	Special Mixture	Mt. Airy	1.08	1.00	2.28	2.00	2.80	.....	8.95	9.00	18.46	16.80
	Home Fertilizer & Chemical Co., Baltimore, Md.											
19548	Boykin's Eagle Phosphate	Baltimore	1.89	1.00	1.65	1.00	2.25	.....	6.53	8.00	17.95	14.60
19500	Boykin's Home Potato Grower	Baltimore	4.02	4.00	3.77	4.00	2.45	.....	7.66	6.00	30.02	27.20

aContains Nitrate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Home Fertilizer & Chemical Co., Baltimore, Md.											
19501	Fish, Bone and Potash	Baltimore	1.55	2.00	1.89	2.00	1.70	.....	10.68	8.00	$21.59	$19.60
21469	Home Potato Special	Baltimore	a1 77	2.00	8.65	10.00	.85	.....	9.88	8.00	27.93	27.60
19606	Yancey's Formula	Baltimore	3.63	3.00	2.48	2.00	3.00	....	6.24	8.00	25.69	23.60
	Hubbard Fert. Co., Balto., Md.											
21202	Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.71	.....	15.01	14.00	13.55	12.60
21357	Acid Phosphate 14%	Hydes	.....	.....	.....	.....	1.22	.....	15.69	14.00	14.36	12.60
19514	Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.12	....	16.29	16.00	14.68	14.40
21445	Alkaline 12 and 5	Mt. Airy	.....	.....	4.67	5.00	.90	.....	12 93	12.00	16.49	15.80
19515	Bone and Potash	Baltimore	.....	.....	3.34	2.00	1.50	1.75	11.06	10 00	13.59	11.35
21356	Climax Bone	Hydes	a1.06	1.00	4.84	4.00	.97	.....	7.51	7.00	18.48	16.40
19635	Columbia Gem	Laurel	a1.54	.50	2.84	2.00	1.47	1.75	8.16	8.00	19.38	14.30
21391	Farmers' I. X. L.	Cardiff	a1.48	2.00	2.81	2.00	1.40	.....	8 56	8.00	19.56	19.60
21418	Jersey Trucker	Hancock	a2.13	2.00	9.30	10.00	1 00	2.00	9.20	8.00	29.26	28.40
21392	Jewel Phosphate	Cardiff	a1.45	1.25	5.01	5.00	1.42	.....	8.54	8.00	21.63	19.60
21393	Oriental Phosphate	Cardiff.	a1.02	1.00	2.90	2.00	1.20	.....	9.02	8.00	18.28	15.60
21410	Raw Bone	Poolesville	4.40	4.50	.....	.....	*20.31	*23.00	.....	.....	29.79	31.80
21301	Royal Ensign	Baltimore	a3 02	3.00	5.08	4.00	1 35	.....	7.70	8.00	26.94	25.60
21263	Royal Seal 5%	Baltimore	a4 25	5.00	4.89	5.00	1.62	.....	7.39	6.00	31.41	32.20
21464	Special Mixture	Baltimore	.....	.....	3.38	4.00	.45	.....	12 01	10.00	14 28	13.00
21211	Standard Bone Phosphate	Baltimore	a2.39	2.00	3 37	3.00	1.30	.....	8.07	8.00	23.13	20.60
	M. P. Hubbard & Co., Balto., Md.											
21419	Acme Bone Fertilizer	Walkersville	1.28	1.00	4.65	4.00	.40	....	8.51	8.00	20.14	17.60

21243	Bermuda Guano 7%	Baltimore	6.67	7.00	5.13	5.00	.37	1.00	6.58	6.00	$39.86	$40.60
21278	Celebrated Bone Phosphate	Baltimore	a2.02	2.00	3.19	2.00	.87		8.28	8.00	21.56	19.60
21358	Excelsior Bone Phosphate	Corbett	1.02	1.00	2.70	2.00	.55	1.00	7.80	8.00	16.36	16.00
19692	Farmers' Acme	Corbett	1.38	1.00	3.69	4.00	.70	1.00	8.37	8.00	19.53	18.00
21359	Fish, Bone and Potash	Corbett	.43	.25	2.14	2.00	.65		6.81	6.00	12.29	10.20
21275	Harvest King	Baltimore	1.83	1.25	4.30	3 00	1.55		7.92	9.00	21.74	18.80
21481	Havana Special	Baltimore	2.88	3.00	3.63	3.00	1.35	1.50	8.90	8.00	26 37	25.20
21255	Jersey Special	Baltimore	2.13	2.00	4.96	10.00	1.12	1.00	9.35	7 00	25.15	26.80
21360	Maloney's Special Mixture	Corbett	a2.13	2.00	7.52	5.00	.50		8.25	8.00	26.14	22.60
21227	Maryland Special Veg. Grower	Baltimore	a4.47	5.00	6.15	5.00	.80	1.00	8 44	7.00	34.48	33.80
21323	Old Economy	Baltimore	.46	.50	2.78	2.00	.42	1.00	8.08	8.00	14 49	14.00
19659	Raw Bone Meal	Baltimore	3.67	4.00			*24.10	†40.00			29.14	40.00
21264	Soluble Bone and Potash	Baltimore			2.23	2.00	.37	2.00	10.10	10 00	11 39	11.40
21244	Soluble S. C. Phosphate	Baltimore					.30		13.41	14.00	12.13	12.60
21265	Special Potato and Tomato Fert.	Baltimore	1.95	2.00	5.73	5.00	1.40	1.00	7.13	7 00	22.65	21.80
21140	Special Potato and Tomato Fert.	Greensboro (J. E.)	1 25	2.00	6.72	5.00	.72		8.22	7.00	21.87	21.40
21204	10% Guano Top Dresser	Baltimore	a9.72	10.00	2.81	2.00	.37	1.00	6.58	6.00	49.74	49.60
21329	XXXX Diss. Phos. and Pot. Mix.	Baltimore			4.85	5.00	.67	1.50	12.19	12.00	15.95	16.10
	S. L. Lamberd Co., Balto., Md.											
19575	Boss Fertilizer	Baltimore	1 76	2.00	4.86	4.50	1.97	1.00	7.42	7 00	21.59	21 30
19652	Truck Phosphate	Baltimore	3 63	4.00	4.40	4.00	1.95	1.00	7.85	7.00	29.12	28.80
	Lister's Agricultural Chem. Wks., Newark, N. J.											
19584	Atlas Brand	Kirby's Whf			4.93	5.00	.92		12.02	12.00	15.93	15.80
19502	Bone Meal	Baltimore	3.91	3.25			*23.64	*22.88			29.82	26.73
19535	Buyers' Choice Acid Phosphate	Courthouse Bridge					1 50		14.02	14.00	12.92	12.60
21477	Celebrated G. B. & T. Acidulated	Baltimore	2.85	3.25			*13.31	*12.00			19.39	20.20
21290	Corn and Potato Fertilizer	Baltimore	1.96	2.00	3.16	3.00	1.12		8 03	8.00	21.09	20.60
21351	Dissolved Phosphate and Potash	Stockton			3 04	2.00	1.45		10.52	10.00	12.80	11.00
21379	"G" Brand	Berwyn	1.06	1.00	4 58	4.00	1.25		8.01	8.00	18.93	17.60
21465	Golden Sheaf	Baltimore	.63	.50	2.37	2.00	1.22		7.71	8.00	14.63	13.60
21250	Harvest Queen Phosphate	Baltimore	1.64	1.50	2.28	2.00	1.55		9.03	9.00	20.30	18.80
21279	Potato Manure	Baltimore	4.81	4.00	5.34	7.00	2.32		7.47	8.00	34.47	32.60
21310	Special Crop Producer	Baltimore	1.02	1.00	1.23	1.00	1.37		7.16	7.00	14.45	13.40
19682	Special Potato Guano	Baltimore	6.25	7.00	4.95	5.00	.98		6.67	6.00	38.34	40.20
21311	Special 10% Fertilizer	Baltimore	2.03	2 00	10.08	10.00	1.70		8.77	8.00	29.40	27.60
21478	Standard Pure B. Super-P. of L.	Baltimore	a3.02	3.00	2.61	2.00	1.75		9.68	9.00	27.01	24.80
21367	U. S. Super-Phosphate	Greensboro	1 31	1.25	2.65	2.00	1 45		8 21	8.00	18.82	16.60

aContains Nitrate. †"Bone Phosphate."

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	McComas Bros., Bel Air, Md.											
21394	High Grade Fertilizer	Bel Air	1.57	1.50	5.21	5.00	1.47	.....	6.60	6.00	$20.00	$18.20
21395	Standard Fertilizer.	Bel Air	1.06	1.00	b2.79	2.00	1.50	.....	8.35	8.00	18.21	16.00
	D. B. Martin Co. Phila., Pa.											
21385	Acid Phosphate	Baltimore	.....	.....	.....	.....	64	.....	16.02	16.00	14.55	14.40
19614	Acid Phosphate	Baltimore	.....	.....	.....	.....	1.52	.....	12.30	14.00	11.37	12.60
19665	Bulls Head Fertilizer	Baltimore	2.92	3.00	3.17	3.00	1.20	.....	8 56	8.00	25 60	24 60
21312	Claremont Vegetable Grower	Baltimore	2.92	3.00	5.47	5.00	2.60	.....	7.16	7.00	26.81	25.40
21396	Corn and Cereal Special	Bel Air	2.03	2.00	2.53	2.00	3.75	.....	6.21	8.00	19.60	19.60
19594	Crop Producer	Baltimore	1.27	1.25	.....	.....	2.10	.....	8.71	10.00	16.37	17.00
19607	Dissolved Animal Bond	Baltimore	2.17	2.00	.....	.....	1.82	.....	12.59	12.00	24.52	22.40
21446	Dissolved Organic Compound	Sykesville	1.26	1.25	2.22	2.00	1.77	.....	8.34	9.00	17.98	17.80
21415	Dissolved Slaughterhouse Bone	Seneca	1.35	1.25	.....	.....	2 25	.....	9.78	10.00	18.04	17.00
21386	Early Truck and Veg. Grower	Baltimore	4.93	4.00	8.27	8.00	.97	.....	6.27	6.00	35.90	31.20
21212	Gilt Edge Potato Manure	Baltimore	3.11	3.00	9.72	10.00	1.90	.....	7.04	7.00	31.37	30.40
21245	Guano 7%	Baltimore	6.96	7.00	5.12	5.00	.55	.....	7.42	6.00	42.08	40.20
21246	High Grade Bull Head	Baltimore	4.45	5.00	9.32	7.00	1.85	.....	6.04	6.00	35.11	34.20
21420	One, Eight and Four	Cumberland	1.01	1.00	3.91	4.00	1.05	.....	7.88	8.00	17.83	17.60
21266	Patash and Soluble Bone	Baltimore	.....	.....	4.57	5.00	.32	.....	12.42	12 00	15 81	15.80
21213	Prize Potato	Baltimore	1.79	2.00	16 25	10.00	1.35	.....	7 39	8.00	32.82	27.60
19503	Pure Animal Bone and Potash	Baltimore	2.42	2.00	1.39	2.50	16.37	.....	7.79	16 00	26.97	29.70
21219	Pure Dissolved Animal Bone	Baltimore	2.15	2.00	.....	.....	1.62	.....	12.61	12.00	24.38	22.40
21416	Pure Ground Bone	Seneca	2.01	2.00	.....	.....	*23.38	*22.00	.....	.....	22.07	21.20

21417	Pure Raw Bone Meal	Seneca	4.44	4.50	.....	.....	*22.84	*21.00	.....	.....	31.46	30.60
19549	Special Compound	Baltimore	2.66	2.00	3 75	5.00	1 55	.....	7.71	8.00	24 26	22.60
21214	Special Compound	Baltimore	2.03	2.00	4.43	5.00	1.75	.....	8.32	8.00	23.23	22.60
21220	Special Potato Manure	Baltimore	1.14	1.00	5.32	5.00	1 27	.....	7.58	8.00	19.49	18.60
21421	Sure Grower	Cumbeland	1.13	1.00	1.29	1.00	1.30	.....	8.02	8.00	15.95	14.60
	Martin & White Co., Balto., Md.											
21368	Acid Phosphate 16%	Crupton	.....	.....	.....	.....	1.82	.....	15.06	16.00	13.91	14.40
21333	Acid Phosphate 14%	Baltimore	.....	.....	....	.....	.22	.....	13.47	14.00	12.16	12.60
19694	Acid Phosphate 14%	.....	.....	.....	.....	.....	1.70	.....	13.01	14.00	12.05	12.60
19595	Big Crop Grower	Baltimore	a1.83	2.00	2.09	2.00	.87	.....	7.71	8.00	19.01	19.60
21267	Bone, Blood and Potash	Baltimore	a4.35	5.00	8.24	7.00	.80	.....	7.44	8.00	34.89	36.60
21369	Bone Meal	Greensboro	3.02	3.00	.....	.....	*24 08	*23.00	.....	.....	26.53	25.80
21165	Bone Meal	Massey (T. C. R.)	3.04	3.00	.....	.....	*23.91	*23.00	.....	.....	26.51	25.80
21334	Cereal Grower	Baltimore	.51	.50	2.24	2.00	.55	.....	7.60	8.00	13.62	13.60
21238	Dissolved Bone	Baltimore	2.08	2.00	.....	.....	3 22	.....	9 74	10.00	21 30	20.00
19596	Fish Guano	Baltimore	a1.86	2.00	3.35	3.00	1.07	.....	7.57	8.00	20.30	20.60
21343	Fruit Special	Greensboro	a1.45	2.00	6.35	5.00	1.02	.....	7.79	8.00	21.91	22.60
19627	Golden Harvest	Baltimore	1.03	1.00	1.51	1.00	2.80	.....	6 49	7 00	14.54	13.40
19597	Grain and Tomato Grower	Baltimore	a1.08	1.00	5.51	5.00	1.25	.....	6.56	7.00	18.20	17.40
21239	High Grade Phosphate & Potash.	Baltimore	.....	.....	5 74	5.00	.45	.....	11.71	12.00	16 37	15.80
21221	Maine Potato Grower	Baltimore	a3 50	4.00	11.11	10.00	.60	.....	5.87	6.00	32.39	33.20
21268	Pea Mixture	Baltimore	a2.90	3 00	b2.02	2.00	1.25	.....	6.01	6 00	21.73	21.60
19504	Phosphate and Potash	Baltimore	.....	.....	3.17	3 00	1.73	.....	11.01	12.00	13.52	13.80
21269	Potato Fertilizer	Baltimore	a4.45	5.00	6.14	5.00	.72	.....	7.03	7.00	32.67	33.40
21222	Potato Special	Baltimore	a1.88	2 00	10.29	10.00	.90	.....	8.02	8 00	27.79	27.60
19540	Raw Bone Meal	Elk Mills	3.38	4.50	.....	.....	*26.68	*23.00	.....	.....	29.53	31.80
21344	Royal Crop Grower	Greensboro	1.14	1.00	4.02	4.00	1.07	.....	8.25	8.00	18.91	17.60
21156	Special Mixture	Greensboro (F. P. R.)	a3.38	3.50	5.48	5.00	1.12	.....	6.91	7.00	27.74	27.40
21155	Tankage 6%	Greensboro (F. P. R.)	5.60	6.00	.....	.....	*5.15	.....	.....	.....	19.89	18.00
19684	Trucker 7%	Showell	a6.76	7.00	4.92	5.00	.68	.....	5.23	6.00	38.51	40.20
21270	Virginia Trucker	Baltimore	a3.55	4.00	4.16	4.00	.82	.....	6.26	6.00	26.20	27.20
19608	Wheat Grower	Baltimore	.....	.....	4.76	5.00	1.20	.....	5.78	8.00	10.20	12.20
21335	Wheat Special	Baltimore	.....	.....	4.53	5.00	.45	.....	10.02	10.00	13.64	14.00
	F. Maynard, Balto., Md.											
19653	High Grade Special Vegetator	Baltimore	2.87	3.00	2.86	2.50	1.57	.....	8.13	7.00	24.73	22.90
21475	High Grade Trucker's Pride	Baltimore	a4.74	4.80	3.25	2.50	1.80	.....	6.38	6.00	30.59	28.90

aContains Nitrate. bAs Sulfate. *Total Phosphoric Acid.

No.	Name and address of Manufacturer and name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	F. Mehring, Bruceville, Md.											
21447	Acid Phosphate	Bruceville	.....	.....	.....	.....	3.15	1.00	15.32	15.00	$14.41	$13.70
21448	Dissolved Raw Bone	Bruceville	2.03	2.00	.....	.....	2.20	1.00	15.75	14.00	27.90	25.20
21449	General Crop Grower	Bruceville	1.01	1.00	1.96	1.25	5.02	1.00	10.17	10.00	20.21	17.65
21450	Twenty-Six-Dollar Phosphate	Bruceville	1 67	1.50	b2.11	1.50	5.05	1.00	12.23	10.00	25.91	20.20
	Miller Fertilizer Co., Balto., Md.											
21387	Acid Phosphate	Baltimore	.....	.....	.....	.....	.75	.50	14.22	14.00	12.95	12.70
19516	Alkaline	Baltimore	.....	.....	5.02	5.00	.60	1.00	12.14	12.00	16.07	16.00
21397	Ammoniated Dissolved Bone	Forest Hill	2.03	2.00	2 27	2.00	.92	.....	8.40	8.00	20.34	19.60
21225	Buyer's Mixture	Baltimore	.....	.....	4.40	5 00	.50	1.00	11 87	10.00	15.14	14.20
21370	Club Brand	Crumpton	.65	.50	2.30	2.00	.90	.50	8.01	8.00	14.87	13.80
21388	Farmer's Profit	Baltimore	1.26	1.00	5.19	5.00	1.10	.50	8 26	8.00	20.58	18.80
21240	Ground Bone	Baltimore	3.29	3.00	.....	.....	*15.80	*14.50	.....	.....	22.64	20.70
19521	Harvest Queen	Baltimore	1.37	1.25	2.90	2 75	1.57	1.00	9.05	9.00	19.87	18.95
21291	Hustler Phosphate	Baltimore	1.04	1.00	1.37	1 00	.62	.50	8.21	8.00	15.63	14.80
19587	McAfee's Top Dressing	Baltimore	a5.09	5.00	5.11	2.50	.50	.....	4 17	4.00	30.67	27.30
19598	McAfee's Truckers' Favorite	Baltimore	a3.82	3.75	3 32	2.50	1.45	.....	9 05	9.00	30.03	28.30
19517	M. B. S. Fertilizer	Baltimore	1 02	1.00	3.38	3.00	.75	.50	7.17	7.00	16.36	15.60
19576	Pimlico	Baltimore	2 02	2.00	9 65	10.00	1 25	.50	8 14	8.00	28.00	27.80
19666	Potash Mixture	Baltimore	.....	.....	5.56	5.00	72	.50	9.48	10.00	14.23	14.10
21371	Potato and Vegetable Grower	Chestertown	2.13	2.00	4.46	4.00	.67	.50	8.46	8.00	23.40	21.80
21203	Potato & Vegetable Grower No. 1	Baltimore	a4 56	4.50	8.15	7.00	.42	1.50	8 01	8.00	36.17	35.20
21276	S. C. Rock	Baltimore	.....	.....	.....	.....	.60	1.00	14.67	14.00	13.32	12.80

19628	Special Potato Fertilizer	Ellicott City	1.16	1.00	5 31	5.00	.85	.50	7.01	7.00	$18.70	$17.60
21302	Special Tomato Grower	Baltimore	2.17	2.00	2.73	2.00	.85	1.50	7.79	8.00	21.10	20.20
21241	Standard Phosphate	Baltimore	3.04	3.00	3.52	3.00	.60	.50	8.04	8.00	25.57	24.80
21226	W. G. Phosphate	Baltimore	.72	.50	1.32	1.00	.70	1.00	7.68	7.00	13.70	11.80
	Miller & Cramer, Woodsboro, Md.											
21422	Maryland Alkaline Phosphate	Woodsboro	.....	.....	2.35	2.00	1.15	1.00	9.77	10.00	11.37	11.20
	W. H. Moore & Co., Balto., Md.											
19690	Peruvian Guano 10%	Baltimore	a8.84	10.00	.....	.....	.....	.....	.....	.....	26.52	30.00
	H. W. Morgan, Phoenix, Md.											
19688	Oat Fertilizer	Phoenix	a4.66	5.00	7.13	6.00	.17	.....	8.69	8.00	36 27	35.60
19689	Potato Grower	Phoenix	a.43	1.00	11 54	12.00	.22	.....	10.41	10.00	25.84	28.00
	J. B. Nichols & Son, Balto., Md.											
19654	Farmers' Friend	Baltimore	a3.57	4.00	4.42	4.00	2.47	.....	7.41	7.00	28.58	28.40
	Norton Mfg. Co., Washington, D. C.											
21153	Tankage	Muirkirk (P.E.C.)	6.18	f9.09	.....	.....	*15 49	.....	.....	.....	27.83	27.27
	G. Ober & Sons Co., Balto., Md.											
21251	Avondale Amm. Dissolved Bone	Baltimore	a2.22	2.00	2 32	2.00	1.42	.....	9.07	8.00	22.65	19.60
21234	Complete Vegetable Fert	Baltimore	a5.03	5.00	5 91	7.00	.52	.....	7.96	6.00	35.79	34.20
19550	Dissolved Animal Bone	Baltimore	4.90	3.00	.....	.....	1.47	.....	10.17	10.00	32.39	24.00
21303	Dissolved Animal Bone	Baltimore	3.40	3.00	.....	.....	3 07	.....	12.52	10.00	29 85	24.00
21247	Dissolved Bone Phosphate	Baltimore	.....	.....	.....	.....	.47	.....	15 37	14.00	13.92	12.60
19551	Dissolved Bone Phos. and Pot	Baltimore	.....	.....	2.03	2.00	.87	.....	10.40	10.00	11 56	11 00
21304	Farmer's Mixture	Baltimore	a1.14	1.00	3.17	2.00	.95	.....	9.09	9.00	19.02	16.80
19683	Farmer's Standard Amm. Phos.	Denton	a2.13	2.00	1.84	2.00	1.27	.....	11 98	9.00	25 25	20.80
21235	Fish, Bone and Potash Mixture	Baltimore	a3.36	3.25	4.69	3.50	1.45	.....	7.70	8.00	27.95	26.10
21252	Fish and Potash Fertilizer	Baltimore	a2.02	2.00	2.63	2.00	1.12	.....	10.32	9.00	23.54	20.80
21236	Fruit and Vine Fertilizer	Baltimore	4.28	2.50	11.34	10.00	.37	.....	7.76	6.00	37.92	27.20
21330	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.30	.....	17.65	16.00	15.95	14.40
19674	Independent Amm. Super-Phos.	Baltimore	1.04	1.00	1.22	1.00	1.50	.....	8.03	8.00	15.62	14.60
19695	Ox Head Mixture	.....	a.78	.50	1.95	2.00	1.10	.....	9.10	8.00	16.43	13.60
21345	Pure Raw Bone Meal	Centreville	5.32	4.00	.....	.....	*21.71	*21.00	.....	.....	34.31	28.60
21476	Sol. Amm. Super-Phos. of Lime	Baltimore	a2.15	2.00	2.39	2.00	2.60	.....	8.33	8.00	22.03	19.60
21470	Special Compound	Baltimore	a3.12	3.00	3.53	3.00	1.35	.....	9 12	8.00	27.49	24.60
21292	Special Plant Food	Baltimore	a2.32	2.00	5.04	5.00	1.25	.....	9.13	9 00	25.78	23.80
19505	Standard Potash Compound	Baltimore	.....	.....	6 14	5.00	.92	.....	10.88	12.00	16.11	15.80

aContains Nitrate. fNitrogen 7½% = 9.09% Ammonia. *Total Phosphoric Acid.

No.	Name and address of Manufacturer and name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	G. Ober & Sons Co., Balto., Md.											
19522	Stand. Southern Vegetable Fert.	Baltimore	a7.64	7.00	5.97	5.00	.75	.....	5.78	6.00	$43.77	$40.20
21313	Stag Guano	Baltimore	a1.33	1.00	4.31	4.00	1.62	.....	9.33	8.00	21.48	17.60
	Patapsco Guano Co., Balto., Md.											
21372	Alkaline Phosphate	Georgetown	.....	.....	3.40	3.00	.85	.....	11.58	12.00	13.99	13.80
21314	Alkaline Plant Food	Baltimore	.....	.....	5.46	5.00	.85	.....	8.38	8.00	13.17	12.20
21272	Blood, Bone and Potash	Baltimore	.73	.50	2.12	2.00	1.35	.....	8.53	8.00	15.82	13.60
19696	Columbia Guano	Snow Hill	3.12	3.00	5.34	5.00	1.07	.....	8.41	8.00	28.34	26.60
21280	Coon Brand Guano	Baltimore	1.04	1.00	3.24	3.00	1.40	.....	9.09	9.00	18.87	17.80
21324	Corn and Tomato Fertilizer	Baltimore	1.55	1.50	2.25	2.00	1.67	.....	8.50	9.00	19.32	18.80
21362	Dissolved Raw Bone	Cockeysville	2.54	2.50	.....	.....	3.22	.....	12.05	12.00	25.91	24.40
21205	Early Trucker	Baltimore	5.12	5.00	5.62	5.00	1.60	.....	7.18	7.00	35.36	33.40
21325	Fish Guano	Baltimore	2.04	2.00	2.35	2.00	2.12	.....	6.18	6.00	18.78	17.20
21361	Genuine German Kainit	Cockeysville	.....	.....	12.04	12.00	.....	.....	.....	.....	.....	.....
21363	Grain and Grass Producer	Cockeysville	1.02	1.00	4.44	4.00	1.25	.....	9.05	8.00	19.88	17.60
21256	High Grade Phos. and Potash	Baltimore	.. ..	.....	5.33	5.00	1.57	.....	11.58	11.00	16.06	14.90
21381	Phospho Potash	Baltimore	.....	.....	3.34	3.00	.65	.....	6.39	6.00	9.22	8.40
19577	Potato Guano	Baltimore	5.32	5.00	8.66	7.00	1.30	.....	6.46	6.00	38.21	34.20
21248	Potato Manure	Baltimore	2.20	2.00	10.55	10.00	1.02	.....	6.09	5.00	27.07	24.00
21281	Pure Dissolved S. C. Phosphate	Baltimore	.....	.....	.....	.....	.75	.....	16.07	14.00	14.61	12.60
21282	Pure Ground Bone	Baltimore	4.62	4.50	.....	.....	*20.87	*20.59	.....	.....	31.00	30.35
21284	Sea Gull Guano	Baltimore	1.18	1.00	1.25	1.00	1.52	.....	8.30	8.00	16.54	14.60
21355	Sea Gull Ammoniated Guano	Snow Hill	2.06	2.00	2.29	2.00	1.21	.....	7.88	8.00	20.47	19.60

21283	Soluble Bone and Potash	Baltimore	.....	.....	2.17	2.00	1.12	.....	10.01	10.00	$11.40	$11.00
19621	S. Wheat Com. Animal Bone Base.	Baltimore	2.29	2.25	3.75	2.50	5.07	5.00	8.67	9.00	25.34	24.30
21364	Tobacco and Potato Fertilizer	Cockeysville	1.89	2.00	4.55	4.00	1.50	.....	8.14	8.00	22.48	21.60
	Peerless Fert. Co., Chestertown, Md.											
21337	American Standard Fertilizer	Baltimore	a4.02	4.00	7.22	7.00	.77	.....	6.85	6 00	31.83	30.20
21338	Corn Fertilizer	Baltimore	.48	.75	4.28	3.00	.22	.....	7.13	8.00	14 85	15.60
21339	Imperial Compound	Baltimore	a1.08	1.00	5.05	4.00	.12	.....	8.03	8.00	19.06	17.60
21332	New Process Peruvian Guano	Baltimore	a7.87	9.00	4.73	3.00	.....	.....	.....	.....	28.34	30.00
21340	Peerless Tomato Fertilizer	Baltimore	a2.03	2.00	6.01	5.00	.07	.....	7.58	7 00	23.26	21.40
21373	Sweet Potato Manure	Chestertown	a1.55	2.00	10.60	10.00	.30	.....	7.34	6.00	25 73	25.20
19697	Sweet Potato Manure	.....	a1.67	2.00	11.36	10.00	.27	.....	6.84	6.00	26.36	25.20
	Piedmont-Mt. Airy Guano Co., Baltimore, Md.											
19693	Insula Guano	.....	.58	.50	2.52	2.00	.87	.....	6.77	7 00	13.31	12.40
19552	Levering's Ammoniated Bone	Baltimore	a1.01	1.00	2.40	3.00	2.07	.....	9.60	9.00	18.79	17.80
19667	Levering's Harvest Queen	Baltimore	.75	1.00	2.14	2.00	.82	.....	9.70	8.00	17.11	15.60
21451	Levering's Standard	Mt. Airy	2.02	2.00	3.03	3.00	.77	2.00	8.14	8.00	21.19	21.40
19523	Mt. Airy Garden and Truck Fert.	Baltimore	a4.03	4.00	2.64	3.00	1.50	.....	7.20	8.00	28.00	28.60
21407	Peerless Phosphate	Clarksburg	.90	1.00	1.34	1.00	.57	.....	9.73	8.00	16.85	14.60
19553	Piedmont Acid Phosphate 16%	Baltimore	.....	.....	.....	.....	.19	.....	14.86	16.00	13.41	14.40
21294	Piedmont Acid Phosphate 14%	Baltimore	.....	.....	.....	.....	.50	.....	14.50	14.00	13.15	12.60
19609	Piedmont Bone Meal	Baltimore	4.15	4.00	.....	.....	*22.11	$21.00	.....	.....	29.87	28.60
19513	Piedmont Diss. Animal Bone	Baltimore	2.30	2.50	.....	.....	.42	.....	10.28	10.00	21 71	22 00
21471	Piedmont Economy	Baltimore	.29	.25	2.48	2.00	1.05	.....	9 47	10.00	15.42	15.00
21200	Piedmont Farmers' Bone and Pot.	Baltimore	.....	.....	1 95	2.00	.42	.....	10 55	10.00	11.53	11.00
21346	Piedmont Farmers' Favorite	Greensboro	a1.23	1.00	4.93	4.00	.45	.....	8.01	8.00	19.64	17.60
21326	Piedmont Fish Guano	Baltimore	1.95	2.00	2.62	2.00	.95	.....	9.38	8.00	22.06	19.60
21148	Piedmont Fish Guano.	Vienna (E. H.)	a1.93	2.00	2.73	2.00	.85	.....	8.81	8.00	21.36	19.60
19560	P'dm't Gold Leaf Tobacco Comp.	Baltimore	2.59	2.25	1.97	1.50	1.60	.....	9.26	8.50	24.08	20.70
21208	Piedmont Gold Rod 7%	Baltimore	a6.72	7.00	7.46	5.00	.57	.....	6.33	6.00	42.17	40.20
19643	Piedmont Guano for Tobacco	Baltimore	2.25	2.50	3 96	3.00	.95	.....	9.32	8.00	24.52	22.60
21331	Piedmont Perfection Guano	Baltimore	1.81	2.00	6.26	5.00	.95	.....	8.28	8.00	23.82	22.60
21296	Piedmont Potato Producer	Baltimore	a3.86	3.00	6.10	6.00	1.17	.....	6.54	5.00	29.86	24 00
19644	Piedmont Pure Raw Bone Mix	Baltimore	1.26	1.25	3.58	2.00	6.97	.....	7.53	8.00	20.45	16.60
19645	Piedmont Soluble Bone and Pot.	Baltimore	.....	.....	1.06	2.00	.30	.....	7.86	8.00	8 19	9.20
21229	Piedmont Special Potash Mix	Baltimore	.....	.....	4.33	5.00	.12	.....	12.17	10.00	15.30	14.00
21201	Piedmont Special Truck Fert	Baltimore	a6.91	7.00	b7.78	5.00	.72	.....	5.72	6.00	44.13	41.20
21452	Piedmont Success	Mt. Airy	.36	.25	5.38	5.00	.87	2.00	8.61	9.00	17.50	17.60
19698	Piedmont Wheat Compound	Baltimore	.....	.....	3.31	5.00	.90	.....	12.65	12.00	14.88	15.80

aContains Nitrate. bAs Sulfate. *Total Phosphoric Acid.

No.	Name and Address of Manufacturer and name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Piedmont-Mt. Airy Guano Co., Baltimore, Md.											
21209	Special Potato Guano	Baltimore	a5 22	5.00	7.02	7.00	.85	.....	7.07	6.00	$36.72	$34.20
21453	Special Wheat and Grass Phos.	Mt. Airy	a1 79	2.00	2.66	2.00	.77	1.00	8.86	8.50	20.76	20.60
21454	Standard Dissolved Bone Phos.	Mt. Airy	1.23	1.00	2.38	2.00	1.02	1.50	9.77	10.00	19.43	18.60
	Pollock Fert. Co., Baltimore, Md.											
21230	Accomac Trucker	Baltimore	5.03	5.00	5.49	5.00	2.02	.....	7.59	7.00	35.53	33.40
21327	Ammoniated Super-Phosphate	Baltimore	2.01	2.00	2.22	2.00	1 20	.....	7.79	8.00	20.09	19.60
19588	Crop Invigorator	Baltimore	1.04	1.00	4.35	4.00	1.50	.....	7.71	8.00	18.36	17.60
19615	Dissolved Animal Bone	Baltimore	2.47	2.50	.....	.....	3.16	.....	11.17	12.00	24.54	24.40
19589	Dissolved Phosphate and Pot.	Baltimore	.....	.....	4.54	4.00	1.12	.....	9.64	10.00	13.44	13.00
19536	Dissolved Phosphate	Cambridge	.....	.....	.....	.....	1.32	.....	14.13	14.00	12.98	12.60
21316	Early Truck Guano	Baltimore	7.27	7.00	5 64	5.00	1 17	.....	6.16	6.00	42.58	40.20
19668	Ground Animal Bone	Baltimore	4.61	4.00	.....	.....	*21.92	*21.51	.....	.....	31.59	28.91
19564	Owl Brand Guano	Baltimore	.55	.50	1.81	1.50	1 85	.....	6 52	7.00	12.57	11 90
21317	Special Corn Fertilizer	Baltimore	.....	.....	6.32	5.00	.92	.....	7.72	8.00	13.45	12.20
21318	Special Potato and Tobacco Fert.	Baltimore	2 25	2.00	4 30	4.00	1.45	.....	8.01	8.00	23.49	21.60
21383	Superior Corn and Tomato Fert.	Baltimore	1.54	1.00	3.07	2.00	1.47	.....	8.68	8.00	20.24	15.60
19506	Victor Bone Phosphate	Baltimore	.....	.....	1 20	1.00	.87	.....	9.52	9.00	9.94	9.10
	Ramsburg Fert. Co., Frederick, Md.											
21423	Alkaline Phosphate	Liberty	.....	.....	2.28	2.00	3.30	.....	8.54	10.00	10.63	11.00
21411	Ammoniated Bone Phos	Barnesville	1.13	1.00	2.40	2.00	2.52	.....	9.71	10.00	19.58	18.00
21424	Corn and Potato Fertilizer	Monrovia	1.26	1.21	3.38	4.00	3.15	.....	8.18	8.00	19.50	18.44
16677	Super-Phosphate	Myersville	.....	.....	.....	.....	2.17	.....	14.87	14.00	13.81	12.60

16677	Super-Phosphate	Myersville											

21486	Excelsior Plant Food	Monrovia	1.84	2.00	2.59	2.00	2.35	.....	9.73	9.00	22.57	20.80
19526	Queen	Middletown	.55	.50	1.27	1.00	3.55	.....	9.95	8.00	16.83	12.60
21425	Williams Wheat and Grass Fert	Monrovia	1.06	1.00	2.51	2.00	3.25	.....	8.69	8.00	18.48	15.60
	Rasin-Monumental Co., Balto., Md.											
21206	Monumental Potato Manure	Baltimore	1.86	2.00	7.58	7.00	1.62	1.00	6.53	6.00	23.51	22.60
21273	Rasin's Acid Phos	Baltimore	.....	.....	.....	.....	1.12	1.00	14.47	14.00	13.24	12.80
21412	Rasin's Bone and Potash	Silver Spring	.....	.....	2.27	2.00	1.20	1.00	10.28	10.00	11.76	11.20
21347	Rasin's Dissolved Bone	Price	2 06	2.00	.....	.....	4 47	.....	12.12	10 00	24.57	20.00
21297	Rasin's Early Trucker's Special	Baltimore	4.93	5.00	b5.56	5.00	3 35	1.00	6.01	6.00	34.94	33.60
21389	Rasin's Empire Guano	Baltimore	2.03	2.00	b2.04	2.00	1.80	1.00	8.31	8.00	21.26	20.40
21215	Rasin's Gold Standard	Baltimore	2.93	3.00	b6.87	6.00	1.87	1.00	7.33	6.00	29.51	26.80
19565	Rasin's H. G. Bone and Potash	Baltimore	.....	.....	5.12	5.00	1.50	1.00	12.03	12.00	16.25	16.00
21285	Rasin's I. X. L. Fertilizer	Baltimore	1.04	1.00	b3.31	3.00	1.63	1.00	9.24	9.00	19.87	18.80
21365	Rasin's National Crop Compound	Philopolis	1.13	1.00	5.75	4.00	1.60	.....	7.77	8.00	20.23	17.60
21413	Rasin's Pure Raw Bone	Silver Spring	4.52	4.50	.....	.....	*20.45	*22.50	.....	.....	30.35	31.50
21414	Rasin's Royal Fish, Bone & Pot.	Silver Spring	2.13	2.00	b3.65	3.00	2.02	.....	8.15	8.00	23.49	21.20
21319	Rasin's Special Bone and Potash	Baltimore	.....	.....	4.94	5.00	1.45	1.00	10.82	10.00	14.97	14.20
21286	Rasin's Special Fish & Pot. Mix.	Baltimore	2.06	2.00	b3.55	3.00	1.65	1.00	6.81	6.00	21.33	19.20
21374	Rasin's Special Formula	Federalsburg	.....	.....	3.57	3.00	1.12	1.00	6.24	6.00	9.41	8.60
21257	Rasin's Standard Tomato Grower	Baltimore	1.40	1.00	5.58	5.00	1.25	1.00	7.61	7.00	20.81	17.80
21207	Rasin's Tucker's Mixture	Baltimore	6.42	7.00	b5.94	5.00	3.57	1.00	6.33	6.00	41.84	41.60
21216	Rasin's Vegetable Special	Baltimore	2.10	2.00	b7.41	10.00	2.20	1.00	9.34	8.00	29.38	30.00
21482	Rasin's Wheat, Corn & Oats Mix.	Baltimore	.80	.50	3.41	2.00	1.23	1.00	8.02	8.00	16 72	14.00
21161	Rasin's Wheat, Corn & Oats Mix.	Airey (O. F. H.)	.67	.50	2.31	2.00	1.45	1.00	8.14	8.00	15.34	14.00
21466	Rasin's Wheat Potash Mix	Baltimore	.....	.....	5.03	5.00	1.78	1.00	8.02	8.00	12.61	12.40
21348	Rasin's XXX Fertilizer	Price	1.77	2.00	b4.57	5.00	1.75	1.00	8.85	8.00	23.89	24.00
21341	William Penn Crop Grower	Baltimore	1.01	1.00	b1.23	1.00	1.12	1.00	8.41	8.00	16.06	15.20
21375	Wright's Double Potash Phos	Federalsburg	.....	.....	4.43	4.00	2.00	1.00	8.36	9.00	12.35	12.30
	Reindollar Co., Taneytown, Md.											
21455	Special Compound	Taneytown	.67	.50	1.35	1.00	1.67	.....	8.15	8.00	14.48	12.60
	Scott Fert. Co., Elkton, Md.											
21398	Bush River Compound	Aberdeen	4.11	4.00	8.21	7 00	2.25	.....	7.15	7.00	34.25	31.40
19541	Corn and Oats Grower	Childs	.82	.50	3.23	2.00	1.22	.....	10.94	8.00	20.13	13.60
19507	Potato Grower	North East	2.01	2.00	11.14	10.00	1.52	.....	7.02	6.00	28.21	25.20
19542	Potato and Truck Special	Childs	2.22	2.00	5.96	5.00	1.82	.....	8.32	7.00	25.55	21.40
21399	Pure Ground Raw Bone	Aberdeen	4.16	4.00	.....	.....	*22.41	*21.00	.....	.....	30.09	28.60
19508	Standard Phosphate	North East	1.26	1.00	4.63	4.00	1.82	.....	9.16	8.00	21.39	17.60
19509	Sure Growth Compound	North East	4.13	4.00	7.70	7.00	1.50	.....	8.13	7.00	34.58	31.40

No.	Name and address of Manufacturer and name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	Scott Fertilizer Co., Elkton, Md.											
19510	Sure Growth Super-Phosphate..	Rising Sun.....	2.13	2.00	3.91	3.00	2.22	2.00	8.60	8.00	$23.64	$21.40
19543	Tip Top and Potash.....	Childs.....	.....	.....	2.85	2.00	3.57	.....	10.19	10.00	12.73	11.00
	Southern Fertilizer Co., York, Pa.											
21483	Ammoniated Dissolved Fert....	Baltimore.....	2.01	2.00	2.84	2.50	1.52	.....	10.44	10.00	24.02	22.50
	W. H. Street & Co., Fallston, Md.											
21258	Ammoniated Dissolved Bone....	Baltimore.....	1.60	1.50	2.28	2.00	.87	1.50	9.17	9.00	20.03	19.40
21259	High Grade Bone Phosphate....	Baltimore.....	2.56	2.50	3.61	3.00	1.07	1.50	7.76	8.00	23.59	23.20
	H. S. Taveau & Co., Balto., Md.											
19518	Allerton Guano.....	Baltimore.....	2.08	2.00	2.70	2.50	1.65	.....	9.21	9.00	22.73	21.30
21260	Bone Compound.....	Baltimore.....	1.02	1.00	2.53	2.00	1.10	.....	8.19	8.00	16.38	15.60
19646	Dissolved S. C. Bone.....	Baltimore.....	.....	.....	.....	.....	1.27	.....	14.81	14.00	13.58	12.60
19581	Fine Ground Bone Meal.....	Baltimore.....	2.71	3.00	.....	.....	*15.73	*13.73	.....	.....	20.28	20.24
21390	Florida Phosphate.....	Baltimore.....	.....	.....	.....	.....	.37	.....	14.02	14.00	12.69	12.60
21298	Pride of Maryland.....	Baltimore.....	.94	1.00	2.52	2.50	1.07	.....	11.04	10.00	19.96	18.50
21461	Special Compound.....	Baltimore.....	.....	.....	3.14	3.00	1.52	.....	11.61	12.00	13.89	13.80
21468	Wheat and Grass Compound....	Baltimore.....	.....	.....	2.52	2.50	1.45	.....	10.36	11.00	12.13	12.40
21299	Wonder Potato & Tomato Man're	Baltimore	2.03	2.00	5.82	5.00	1.52	.....	8.49	8.00	24.74	22.60
	D. A. Thomas & Co., Hagerstown, Md.											
19527	Crown Jewel.....	Boonsboro.....	.87	1.00	3.70	3.00	1.32	.....	9.03	9.00	18.55	17.80
19528	Dissolved Bone Phosphate.....	Hagerstown.....	.....	.....	.....	.....	.55	.....	14.02	14.00	12.73	12.60
19529	Excelsior.....	Hagerstown.....	a2.10	2.00	4.55	4.00	1.37	.....	7.17	8.00	22.10	21.60

19529	Excelsior	Hagerstown	a2.10	2.00	1.55	4.00						
19530	Golden Sheaf	Beaver Creek	a1.02	1.00	1.47	1.00	1.17	.....	7.84	8.00	$15.43	$14.60
19677	Orchard Special	Hagerstown	a.82	1.00	15.03	15.00	.75	.....	10.33	10.00	31.01	31.00
19676	Potash Special	Hagerstown	.....	.....	5.24	5.00	.90	.....	11.82	12.00	16.06	15.80
19531	Pride of the Valley	Boonsboro	.56	.50	3.57	3.00	1.02	1.00	7.76	8.00	15 53	15.00
19532	Soluble Bone and Potash	Boonsboro	.....	.....	2.36	2.00	.67	.....	10.07	10.00	11.56	11.00
	I. P. Thomas & Son, Phila., Pa.											
19622	Fish Guano	Annapolis	2.22	2.00	2.55	2.00	1.32	1.00	10.65	9.50	24.74	21.80
21434	Improved Super-Phosphate	Providence	1.23	1.00	2.69	2.00	1.25	.....	8.20	9.00	17.95	16.80
21435	Potato Fertilizer	Providence	2.01	2.00	6.02	6.00	1.70	.....	10.64	9.00	27.51	24.80
19623	Potato Manure	Annapolis	2 85	3.00	6.09	6.00	1.02	.....	11.13	9.00	31.25	28.80
21436	S. C. Phosphate	Providence	.....	.....	.....	.....	1 12	1.00	13.45	14.00	12 33	12.80
21437	Special Potash Mixture	Providence	2.03	2.00	10.08	10.00	1.10	1.00	7.01	7.00	27.05	26.80
19624	Sweet Potato Manure	Annapolis	2.22	2.00	9.85	10.00	1.10	.....	7.65	7.00	28.35	26.40
21438	Tip Top Super-Phosphate	Providence	2.88	3.00	5.05	4.00	1.27	1.00	8 01	8.00	26 69	26.00
21439	Truckers' High Grade Guano	Providence	a4.11	4.00	5.91	7.00	.60	1.00	7 86	7.00	32.02	31.80
21440	Victor Potash Manure	Providence	1.02	1.00	5.52	6.00	.87	1.00	8.18	8.00	19.77	20.00
	W. B. Tilghman Co., Salisbury, Md.											
21376	Fish, Bone and Potash Mixture	Federalsburg	1.01	1.00	2.50	2.00	1.32	.....	10.71	10.00	19.92	18.00
19590	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.70	.....	14.76	14 00	13.42	12.60
21402	High Grade Potato Fertilizer	Salisbury	2.63	3.00	6.90	6.00	1 57	.....	8.07	6.00	27 73	25.20
21352	Mixture "B"	Berlin	3.57	4.00	3.87	4.00	2.22	.....	8.32	7.00	29.02	28.40
21353	Special Mixture	Newark	.34	.33	2.68	2.00	.85	.....	11.45	12.00	18 12	17.72
21354	Standard Fish Mixture	Newark	2.03	2.00	3.10	2.00	1.82	.....	8.01	8.00	21.56	19.60
21403	Standard Tomato Mixture	Salisbury	1.55	2.00	5.05	4.00	1.15	.....	8.25	8.00	21.61	21.60
	E. W. Truitt & Co., Salisbury, Md.											
21404	Fish Mixture XX	Salisbury	2.85	2.50	2.70	2.00	.67	2.00	6.77	8.00	22.49	22.40
	Turner & Son, Betterton, Md.											
21287	XX Tomato, Potato and Truck Fr.	Baltimore	2.20	2.00	4.52	4.00	1.30	.....	7.88	7.00	23.30	20.40
	Tuscarora Fert. Co., Balto., Md.											
19691	Acid Phosphate	Baltimore	.....	.....	.....	.....	.32	.50	15.19	14.00	13.73	12.70
21288	Alkaline	Baltimore	.....	.....	5.36	5.00	.22	.50	10.17	10.00	14 55	14.10
19660	Big (4) Four	Baltimore	1.83	2.00	4.33	4.00	1.37	.50	7.81	7.00	21.57	20.60
19636	Bone and Potash	Baltimore	.....	.....	2.20	2.00	1.25	.50	10.02	10.00	11.47	11.10
21305	Fruit And Potato	Baltimore	a2.20	2.00	10.52	10.00	.75	.50	8.19	8.00	29.45	27.80
19610	Special Crop Grower	Baltimore	.92	1.00	2.30	2.00	.82	.50	8.28	8.00	16.25	15.80
19699	Sure Grower	.....	.72	.50	3 27	3.00	.75	.50	8.45	8.00	16.59	14.80
21472	Trucker	Baltimore	4.97	5.00	7.60	7.00	1.15	.50	8.64	8.00	38.31	36.80
21378	York State Special	Federalsburg	1.06	1.00	4.32	4.00	.70	.50	8.51	8.00	19.05	17.80

No.	Name and Address of Manufacturer and Name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	J. E. Tygert Co,, Philadelphia, Pa.											
19524	Big Crop Grower	Baltimore	.....	.....	5.06	5.00	1.00	.....	7.89	8.00	12.36	12.20
19544	Gold Edge Potato Guano	Pleasant Hill	2.20	2.00	6.27	5.00	.67	1.00	7.19	7.00	23.97	21.80
19545	Golden Harvest Phosphate	Childs	.60	.50	2.49	2.00	.90	1.00	8.46	8.00	15.40	14.00
19546	Old Reliable Phosphate	Childs	a2.27	2.25	3.14	2.50	1.42	.....	9.24	9.00	23.88	22.30
19511	Potato Guano	Childs	2.56	2.50	7.79	7.00	1.30	.....	7.63	7.00	27.71	25.40
19519	Tomato Fertilizer	Baltimore	1.95	2.00	4.05	5.00	1.27	.....	8.53	7.00	22.60	21.40
19547	Victor Crop Grower	Childs	1.01	1.00	4.06	4.00	.82	.....	8.50	8.00	18.63	17.60
	J. Tyson & Son, Frederick, Md.											
19533	Corn And Potato Fertilizer	Frederick	1 02	1.00	2.71	2.00	1.30	.....	5.70	8.00	14.15	15.60
	E. S. Valliant & Sons., Church Hill, Md.											
21223	Favorite Brand	Baltimore	2.25	2.00	5 71	5.00	.52	.....	8.02	8.00	24.54	22.60
21146	Favorite Brand	Gr'nsboro (J.E.W.)	2.13	2.00	5 58	5.00	.58	.....	8.33	8.00	24 33	22.60
21479	Ideal Fertilizer	Baltimore	2.30	1.00	2.02	2.00	.80	.....	8 56	9.00	21.81	16.80
21253	Spring Guano	Baltimore	4 06	4.00	6 83	6.00	.60	.....	7.02	7.00	31.73	30.40
21147	Spring Guano	Gr'nsboro (J.E.W.)	4.40	4.00	6.70	6.00	.65	.....	6.87	7.00	32.80	30.40
21152	Spring Guano	Hayden (A. C.)	a3.79	4.00	7.02	6.00	.80	.....	8.25	7.00	32.40	30.40
19561	Standard Fertilizer	Baltimore	a1.13	1.00	4.10	4.00	.97	.....	9.06	9.00	19.88	18.80
	Virginia-Carolina Chemical Co., Richmond, Va.											
21426	Acid Phosphate 14%	Emmitsburg	.....	.....	.....	.....	1.87	1.00	15.01	14.00	13.88	12.80
19537	Bone and Potash	Cambridge	.....	.....	4.65	4.00	2.07	1.00	8.83	8.00	13.01	11.40
21456	Corn and Buckwheat Grower	Taneytown	.....	.....	3.04	3.00	1.22	1.00	6.08	6.00	8.75	8.60
19591	Dissolved Bone and Potash	Baltimore	.....	.....	1.87	2.00	1.52	.....	10.15	10.00	11.31	11.00

19525	Double Bone and Potash	Baltimore	.....	.....	4.01	4.00	1.60	1.00	8.31	8.00	11.81	11.40
21427	Fish, Bone and Potash	Ladiesburg	2.04	2.00	4.21	3.00	1.95	1.00	8.28	8.00	23.09	21.00
21428	National Ammoniated Guano	Ladiesburg	.96	1.00	4.26	4.00	1.77	1.00	8.26	8.00	18.72	18.00
21429	Peerless Bone and Potash	Hancock	.....	.....	2.03	2.00	1.10	1.00	8.17	8.00	9.60	9.40
21430	Prize Potato Manure	Hancock	2.12	2.00	b7.17	6.00	1.92	1.00	7.78	6.00	27.19	22.80
21431	Special Bone and Potash	Emmitsburg	.....	.....	5.32	5.00	2.35	1.00	10.18	10.00	14.95	14.20
21432	Standard Bone and Potash	Emmitsburg	.....	.....	2.30	2.00	1.42	1.00	10.02	10.00	11.60	11.20
21433	Standard Corn and Grass Grower	Ladiesburg	.52	.50	2.21	2.00	1.00	1.00	8.03	8.00	14.33	14.00
21217	Standard Crop Grower	Baltimore	1.96	2.00	2.80	2.00	1.55	1.00	8.59	8.00	21.57	20.00
21462	Standard Tomato Grower	Baltimore	1.01	1.00	4.10	5.00	1.04	1.00	7.01	7.00	16.97	17.80
21457	Union Super-Phosphate	Melrose	.....	.....	3.11	3.00	1.35	1.00	6.75	6.00	9.46	8.60
	S. L. Webster & Son, Cambridge, Md.											
21328	Ammoniated Bone Fert. No. 1	Baltimore	2.51	2.50	2.77	2.50	3.00	.....	7.65	10.00	22.19	24.50
19520	Fish Mixture	Baltimore	1.74	1.50	2.56	2.00	1.65	.....	7.82	8.00	19.56	17.60
	Westminster Fert. Co., Westminster, Md.											
21458	Governor	Westminster	1.59	1.50	2.81	2.50	1.37	.....	9.02	9.00	20.54	19.30
21159	Kainit	Westminster (J L F)	.....	.....	12.21	12.00	.....	.....	.....	.....	.....	.....
21459	Leader	Westminster	1.04	1.00	1.84	1.50	.77	.....	8.20	8.00	16.15	15.10
19512	Super —A—	Pleasant Valley	.67	.75	1.34	1.00	.82	.....	8.12	8.00	14.09	13.60
21460	Super —A—	Westminster	.60	.75	1.37	1.00	.60	.....	8.33	8.00	14.01	13.60
	H. W. Whistler, Fountain Green, Md.											
21400	Crop Grower	Bel Air	1.64	1.50	2.29	2.00	2.27	.....	7.37	8.00	18.60	17.60
21401	Pure Bone Meal	Bel Air	1.95	2.00	.....	.....	*27.57	*20.90	.....	.....	24 34	20 54
	F. M. Wilson & Co., Pocomoke City, Md.											
21405	Favorite Truck Fertilizer	Pocomoke City	3.17	3.00	9.73	7.00	1.25	.....	6.88	8.00	31 17	28.60
21406	Peninsula Ammo. Super-Phos	Pocomoke City	1.47	1.50	2.24	2.00	.92	.....	10.27	10.00	20.81	20.00
	R. A. Wooldridge Co., Balto., Md.											
21349	Champion Giant Phosphate	Centreville	1.23	1.00	2.55	2.00	1.40	.....	9.15	9.00	19.01	16.80
19629	Chieftain Phosphate	Baltimore	2.41	2.00	3.29	2.00	1.30	.....	8.38	8.00	23.51	19.60
19538	Dissolved S. C. Phosphate	Secretary	.....	.....	.....	.....	1.85	.....	13.20	12.00	12.25	10.80
19669	Double Quick Pure Bone Phos.	Baltimore	2.59	2.75	3.40	3.00	1.47	.....	9.59	9.00	25.86	24.80
19678	Dried Blood	Hunt'gt'wn (T.N.G)	16.34	12.00	.....	.....	.....	.....	.....	.....	.....	.....
21342	Farmers' Favorite Cereal Comp.	Baltimore	.58	.50	2.72	2.00	1.27	.....	6.84	7.00	13.76	12.40
19661	Fernwood Grange Mixture	Baltimore	1.83	2.00	3.07	3.00	1.60	.....	8.08	8.00	25.73	25.60
21384	Florida Acid Phosphate	Baltimore	.....	.....	.....	.....	.40	.....	13.55	14.00	12.28	12.60
21274	German Potash Mixture	Baltimore	.....	.....	2.43	2.00	1.17	.....	10.05	10.00	11.71	11.00

aContains Nitrate. *Total Phosphoric Acid.

No.	Name and address of Manufacturer and name of Fertilizer.	Place of Sampling (and Sampler, when not the College.)	NITROGEN Calculated as AMMONIA.		POTASH, K_2O.		PHOSPHORIC ACID.				Comparative Value per Ton Found.	Comparative Value per Ton Guaranteed.
							Insoluble.		Available.			
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.		
	R. A. Wooldridge Co., Balto., Md.											
21237	Golden Crown	Baltimore	7.17	7.00	5.67	5.00	1.67	.....	6.48	6 00	$42.80	$40.20
21473	High Grade Acid Phosphate	Baltimore	.....	.....	.....	.....	.50	.....	16.21	16.00	14.69	14.40
21210	Ideal Grain and Grass Producer.	Baltimore	.....	.....	4.16	4.00	1.12	.....	9.90	10.00	13.29	13.00
21463	Liberty Bell Potash Mixture	Baltimore	.....	.....	3.04	3.00	1.67	.....	11.34	12.00	13.58	13.80
21218	No. 1 Phosphate and Potash 6x3.	Baltimore	.....	.....	3.27	3.00	.85	.....	6.35	6.00	9.16	8.40
21484	No. 2 Phoshhate and Potash 8x5.	Baltimore	.....	.....	5.20	5.00	.72	.....	8.54	8.00	13.03	12.20
21300	Old Sledge Phosphate	Baltimore	.....	.....	5.42	5.00	1.55	.....	11.52	12.00	16.10	15.80
19616	Pure Raw Bone	Baltimore	4.16	4.00	.....	.....	*20.53	*20.59	.....	.....	28.96	28.35
21306	Sovereign Trucker	Baltimore	5.07	5.00	5.60	5.00	1.47	.....	7.57	7.00	35.55	33.40
16675	Special Potato and Tobacco Fert.	Baltimore	2.08	2.00	5.37	5.00	1.35	.....	8.21	9.00	24.08	23.80
21321	Sweet Stakes Sure Shot Phos.	Baltimore	3.16	3.00	8.33	8.00	1.57	.....	8.15	7.00	31.38	28.40
21366	Triumph Phosphate	White Hall	1.55	1.50	4.35	4.00	1.00	.....	8.47	8.00	21.11	19.60
	Wooldridge Fert. Co., Balto., Md.											
19655	Cyclone	Baltimore	3.03	3.00	3.66	3.00	1.10	.50	8.02	8.00	25.84	24.80
21224	Curacao Guano	Baltimore	.....	.....	.....	.....	15.72	11.50	6.80	8.50	9.26	9.95
21249	F. F. V. Flesh and Fish Veg.	Baltimore	2.95	3.00	8.26	7.00	.65	1.50	7.13	7.00	28.88	28.00
21289	H. G. Potato and Tomato Fert.	Baltimore	2.13	2.00	5.49	5.00	.82	1.00	9.41	9.00	25.63	24.20
21231	Orchilla Guano	Baltimore	.....	.....	.....	.....	15.02	.....	6.90	.....	9.21	.....
21307	Search Light Gard. & Truck Phos	Baltimore	4.59	4.50	7.12	7.00	.67	2.00	8.37	8.00	35.78	35.40
21480	Tiger Bone Stock Phosphate	Baltimore	1.27	1.25	4.57	4.50	1.07	.....	8.29	8.00	20.03	19.10
21232	Virginia Belle Potash Mixture.	Baltimore	.....	.....	3.12	3.00	.50	1.00	12.79	12.00	14.73	14.00
	J. M. Wright, Federalsburg, Md.											
21380	Special Mixture	Federalsburg	.58	.50	3.69	2.00	1.62	.....	9.16	9.00	17.65	14.80

*Total Phosphoric Acid.